

SHR-6040
SHR-6042
English

Real Time DVR user manual

imagine the possibilities

Real Time DVR user manual

SAMSUNG







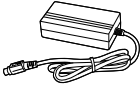


key features of your DVR

Your purchased digital video recorder (DVR) compresses a 4-channel camera input into an MPEG4 video; also, it provides the functions that record to the HDD in real-time and play the content by compressing the 4-channel audio input with G.723. Also through the network, it transmits video and audio to an external device in real-time and allows monitoring the video and audio through a PC from a remote location.

- 4-Channel Composite Input Connectors
- NTSC/PAL Video Source Compatible
- The D1 size (NTSC : 704x480 / PAL : 704x576) of video can be saved at a speed of 90ips(NTSC)/75ips(PAL) (Image Per Second).
- 4-Channel Loop Through Video Connectors
- Supports the overwrite mode of HDD.
- Large capacity HDD backup by using the USB 2.0 interface
- Backup by using the USB 2.0 memory and DVD-RW
- Record, play, and simultaneous video and audio transmissions to the Windows Network Viewer (Net I).
- Possible to record and play the 4-channel audio
- Various saving modes (Continuous, Motion, Alarm In and Schedule)
- Alarm interface (input: 4, output: 2)
- Remote monitoring function by using the Windows Network Viewer (Net I)

WHAT'S INCLUDED WITH YOUR DVR

When you have purchased this product, please take off the packing and place this device on a flat floor or put it down on the place desired for use. And then, check whether all the following components are included in the box. If a component is found to be missing, please contact the place that you have purchased this product.

			
Remote control unit (RCU)	1 power cable	Software CD (including the PDF manual)	Special 4 screws
			
Adaptor	2 EA of AAA batteries	User's Manual	

safety regulations

Please be sure to keep the following in mind for the right use of the product to prevent proprietary risk or damage.

- **Do not use multiple plugs at once.**
This may cause abnormal heat generation or fire.
- **Do not put a vase, flowerpot, cup, cosmetics, medicine, or vessel with water around you.**
This may cause fire.
- **Do not bend the power cord forcibly nor put a heavy material on it.**
This may cause fire.
- **Do not touch the power plug with wet hands.**
This may cause electric shock.
- **Insert the power plug firmly enough not to shake.**
This imperfect connection may cause fire.
- **Keep the product off humidity, dust, or soot.**
This may cause fire or electric shock.
- **Do not put metals (coin, hair pin, metal piece, etc.) or inflammable materials (match, paper, etc.) in the ventilation hole.**
This may cause fire.
- **Keep the surrounding temperature between 0°C to 40°C and keep the product off humidity.**
This may cause breakdown.
- **Secure sufficient ventilation.**
This may cause abnormal operation due to high temperature.
- **Keep the product off direct ray of light or heat from the heating device.**
This may cause fire.
- **Do not disassemble, repair, or remodel the product.**
This may cause fire, electric shock, or injury due to abnormal operation.
- **Do not pull out the power cord.**
This may destroy the power cord, eventually, cause fire or electric shock.
- **Plug out in the event of thunder or lightning.**
This may cause fire.
- **Keep your children off the battery after you take it out of the product. They tend to swallow it unconsciously.**
If your children swallow it, please see the doctor immediately.
- **Install the product at a safe place or attach the product to the wall or ceiling with a stand firmly enough not to fall to the ground.**
This may injure people.



before start

This user's manual provides Information for using DVR such as brief introduction, part names, functions, connection to other equipment, menu setup, and the like.

You have to keep in mind the following notices:

- SEC retains the copyright on this manual.
- This manual cannot be copied without SEC's prior written approval.
- We are not liable for any or all losses to the product incurred by your use of non-standard product or violation of instructions mentioned in this manual.
- If you want to open the case of your system for checking problems, please consult the expert from the shop where you bought the product.
- You may download open source codes from the following website: <http://www.samsung.com>.
- Before installing any external device such as external memory or HDD, please check the compatibility of the device with Samsung DVR. The list of the compatible devices with Samsung DVR can be obtained from your vendor.

WARNING

Battery

Exchanging a wrong battery in your product may cause an explosion. Therefore you must use the same type of battery as the one being used in the product. The following are the specifications of the battery you are using now.

- Normal voltage: 3V
- Normal capacity: 220mAh
- Continuous standard load: 0.2mA
- Operating temperature: -30 to +60°C

CALIFORNIA USA ONLY

This Perchlorate warning applies only to primary CR (Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA.
"Perchlorate Material - special handling may apply.
See www.dtsc.ca.gov/hazardouswaste/perchlorate."

System Shutdown

Turning off the power while the product is in operation, or taking not permitted actions may cause damage to the hard drive or the product. Also it can cause a dysfunction to the hard disk while using the product. Please turn off the power using the **Power** (⏻/⏻) button on the front of your **DVR**. After selecting "OK" in the pop-up menu, you can pull off the power cord.

You may want to install a UPS system for safe operation in order to prevent damage caused by an unexpected power stoppage. (Any questions concerning UPS, consult your USP retailer.)

To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

This apparatus shall always be connected to a mains socket outlet with a protective earthing connection.

Operating Temperature

The guaranteed operating temperature range of this product is 0°C to 45°C (32°F to 113 °F).

This product may not work properly if you run right after a long period of storage at a temperature below the guaranteed one.

When using the device after a long period of storage at low temperature, place the product at room temperature for a while and run it.

Especially for the built-in HDD in the product, its guaranteed temperature range is 5°C to 55°C (41°F to 113 °F). Likewise, the hard drive may not work at a temperature below the guaranteed one.

STANDARDS APPROVALS



This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The rechargeable battery incorporated in this product is not user replaceable.
For information on its replacement, please contact your service provider.

This EEE is compliant with RoHS.

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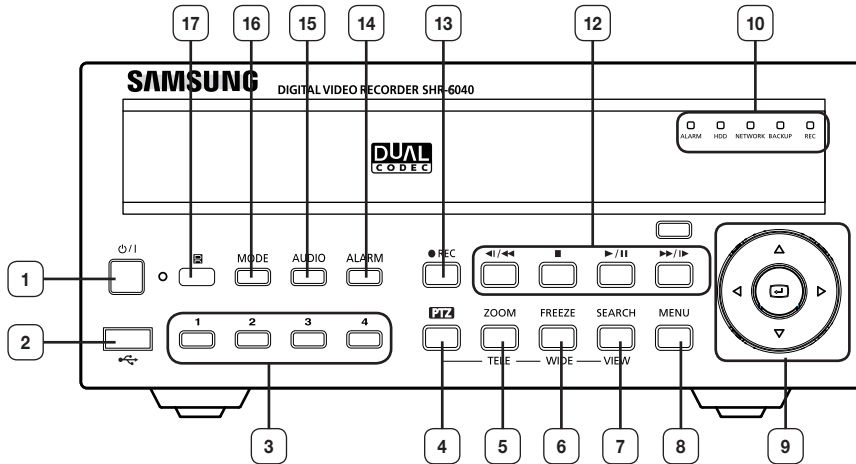
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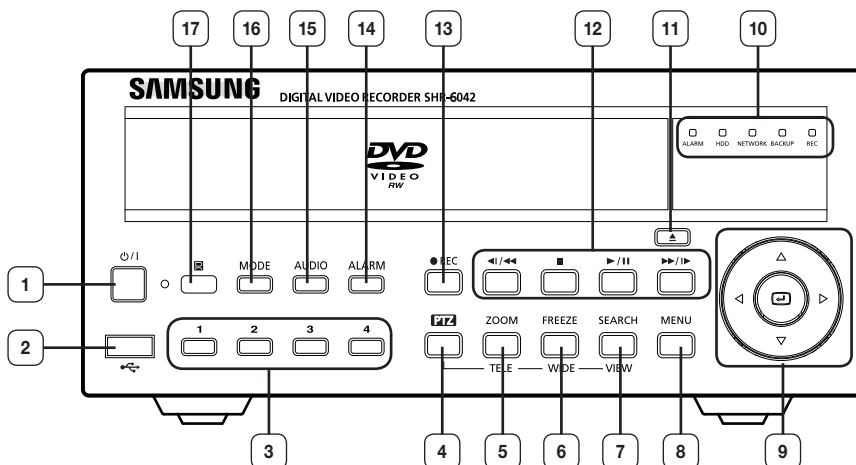
introducing your real time DVR










CONTROLS ON THE DVR














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









SHR-6042

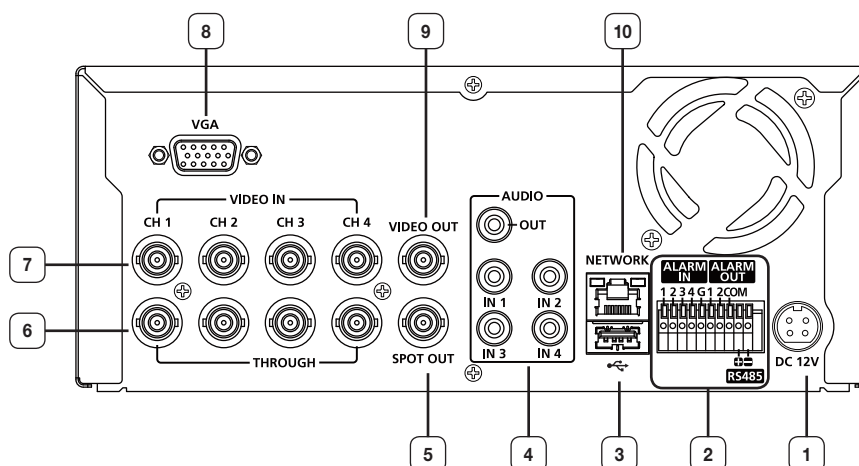


No.	Name		Function	
1		Power Button	User authentication will be requested if the power button is pressed when you try to terminate the system operation. It is used when you turn on/off the DVR system power.	
2		USB Port	This is the port used for connecting a USB type of device. It is used when you upgrade the system software. It is used as a USB mouse connection port.	
3		Channel Button	It is used when the channel selected on the Display mode is switched over to the full screen. It is used as a numeric input button from the numeral input mode.	
4		PTZ Button	Perform the TELE, WIDE, or VIEW function when selecting the PTZ button.	
5		ZOOM (TELE) Button	Provide the function of enlarging the digital image twice as big. Press the Enter (↵) button after designating the area to be enlarged. (Perform the TELE function when selecting the PTZ button.)	
6		FREEZE (WIDE) Button	Perform the FREEZE function on the Display mode. (Perform the WIDE function when selecting the PTZ button.)	
7		SEARCH (VIEW) Button	This is the function that switches over to the Search mode. (Perform the VIEW function when selecting the PTZ button.)	
8		MENU Button	This is the function that switches the system over to the Setup mode. It is used when you move from a lower menu to the upper menu or escape from the system setup mode.	
9		Direction Button	◀	When moving to a menu, they are used as direction buttons. (They are used as the direction buttons for the PTZ operation.)
			▶	
			△	When setting the details of a menu, they are used for changing a value or direction. (They are used as the direction buttons for the PTZ operation.)
			▽	
			Enter (↵)	When setting up a menu, it is used as the Enter button. Press the Enter button when changing the setup value of a menu.

No.	Name		Function	
10	 ALARM	ALARM LED	If an event (like a motion or alarm) occurs, the ALARM LED is lighted on.	
	 HDD	HDD LED	This LED indicates whether the HDD is normally accessed. When accessing the HDD, this LED repeatedly blinks.	
	 NETWORK	NETWORK LED	This LED indicates the status of network connection and data transmission.	
	 BACKUP	BACKUP LED	This LED indicates the status of backup operation.	
	 REC	REC LED	This LED indicates the recording status.	
11		EJECT Button	It performs the open/close function of DVD-RW.	
12		Search Button	Fast/Step Reverse	Fast Reverse: This function is used when you perform a fast search in the reverse direction while in play. Step Reverse: This function is used when you search scene by scene in the reverse direction at a Pause state.
			Stop	This function is used when you terminate a search while in play.
			Play/Pause	This function operates by toggling this button for the Play/Pause operation while in play.
			Fast/Step Forward	Fast Forward: This function is used when you perform a fast search in the forward direction while in play. Step Forward: This function is used when you search scene by scene in the forward direction at a Pause state.
13		REC Button	This is the function that records all the camera channels regardless of the recording schedule.	
14		ALARM Button	When an alarm occurs, it cancels the alarm.	
15		AUDIO Setup Button	Set up the audio On/Off function.	

No.	Name		Function		
16	<div>MODE</div> 	Split Screen/ Selection Button	Live Mode		Display the 4-split screens.
					Display the Picture in Picture (PIP) screen.
					Screen Switchover: It will be switched over to the single channel screen according to the time set from the system setup.
		Search Mode/ Selection Button	Search Mode		Display the 4-split screens.
					Display the 9-split screens.
17	 	Remote Control Signals Receiver	This is the part that receives the signals of remote controller.		

REAL PANEL JACKS



1	DC-IN	This is the connector for a 12V power socket.
2	ALARM/RS485	ALARM IN 1~4: This is the port for an alarm input. ALARM OUT 1~2: This is the port for an alarm output. RS485: This is the port for connecting PTZ.
3	USB	This is the port for connecting a USB type of device. It is used when you backup a video data or upgrade the system software.
4	AUDIO	AUDIO OUT: This is the port (RCA Jack) for an audio signal output. (When outputting an audio signal, please use the speaker with a built-in audio amplifier.) AUDIO IN: This is the port (RCA Jack) for an audio signal input.
5	SPOT OUT	This is the port (BNC-type) for the SPOT OUT output.
6	THROUGH	The THROUGH port can be used to send a video signal to another video device.
7	VIDEO-IN	This port is the port (BNC-type) for a composite video signal input. It supports both the NTSC and PAL video signals.
8	VGA	This is the port for the VGA signal output.
9	VIDEO OUT	This is the port (BNC-type) for a composite audio signal output.
10	NETWORK	This is the port for connecting to a network.

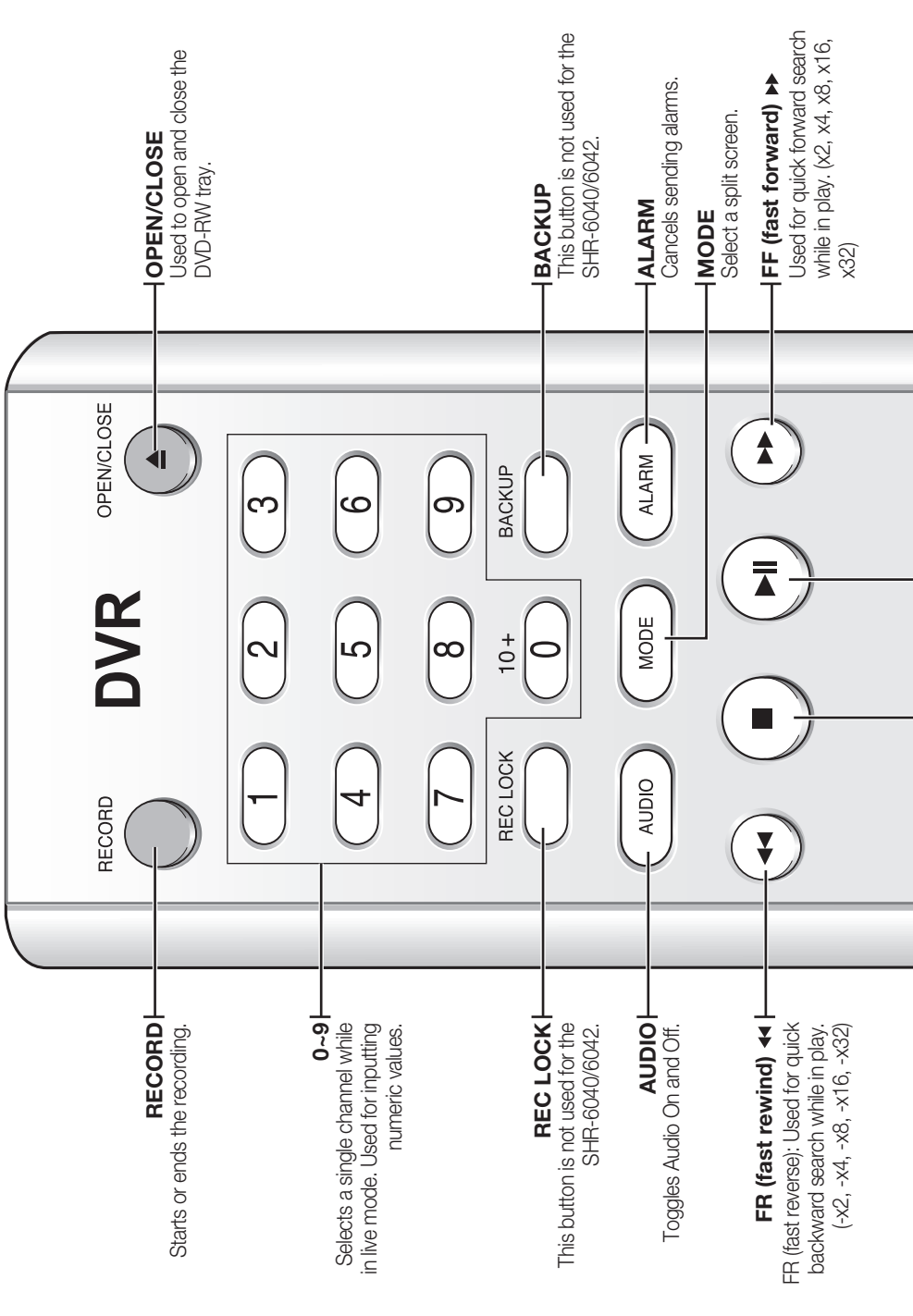
Using the NUMERIC Buttons

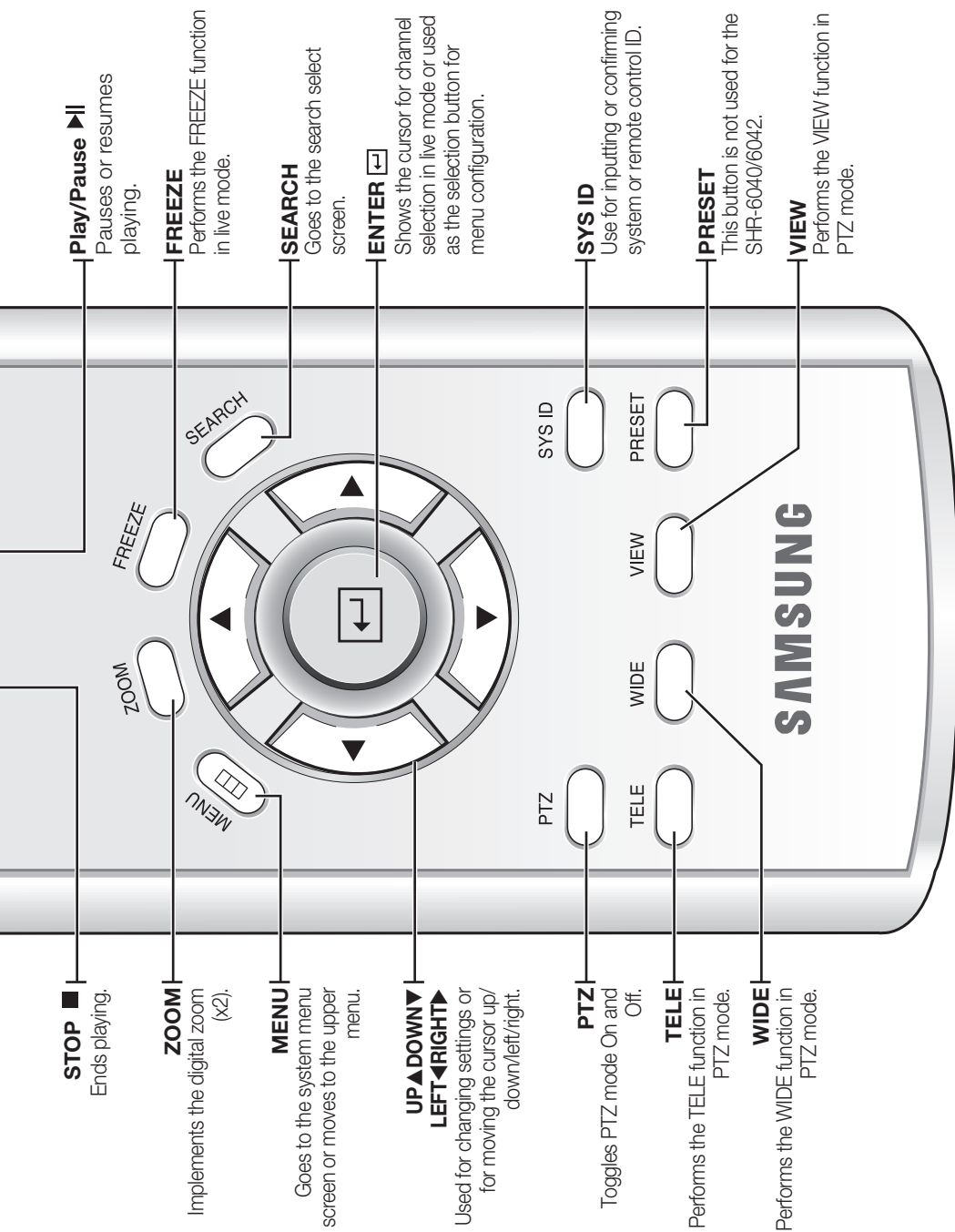
- CHANNEL 1–9**

Press the 1 to 9 button respectively.
- CHANNEL 10**

Press the 0(10+) button, release, and press the 0 button again within 3 seconds. Or press the 0(10+) button, release, and wait 3 seconds.
- CHANNEL 11–16**

Press the 0(10+) button, release, and press the 1 (or 2, 3, 4, 5, 6) button again within 3 seconds.





- When the product is initially shipped, the remote controller ID is set to '00'.
- When changing the remote controller ID, press the **SYS ID** button and enter the "Remote ID" set to the DVR.

installation

You should pay attention to the following before you use the product.

- Do not use it outdoor.
- Do not place water or liquid near the connection part or the product.
- Do not impose excessive shock or force.
- Do not pull out the power cord unreasonably.
- Do not disassemble the product on your own.
- Do not exceed the rated input or output voltage range.
- Use the certified power cord only.
- For the product with an input ground, use a power plug with a ground pin.

CHECKING INSTALLATION ENVIRONMENT

Samsung Digital Video Recorder (hereinafter referred to "DVR") is a high-tech security equipment that contains a high-capacity HDD and top-notch circuits. High temperature inside or outside of the product may reduce the product life, deteriorate performance (see the Figure 1 below; it explains the correlation between temperature and product life), and lead to a malfunction.

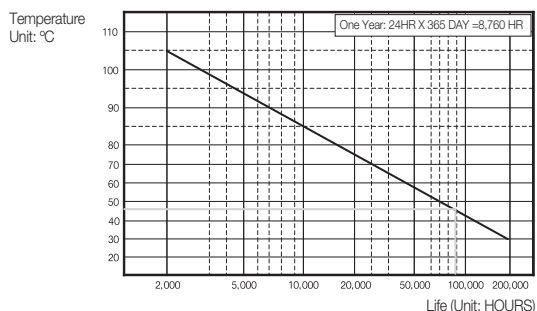


Figure 1

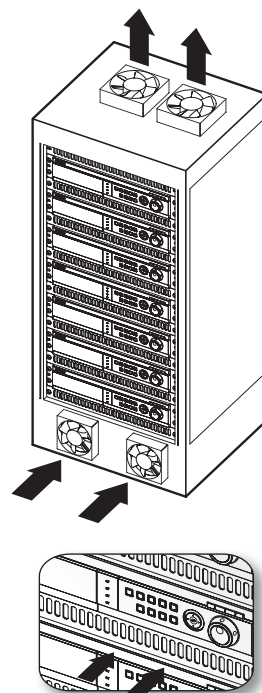


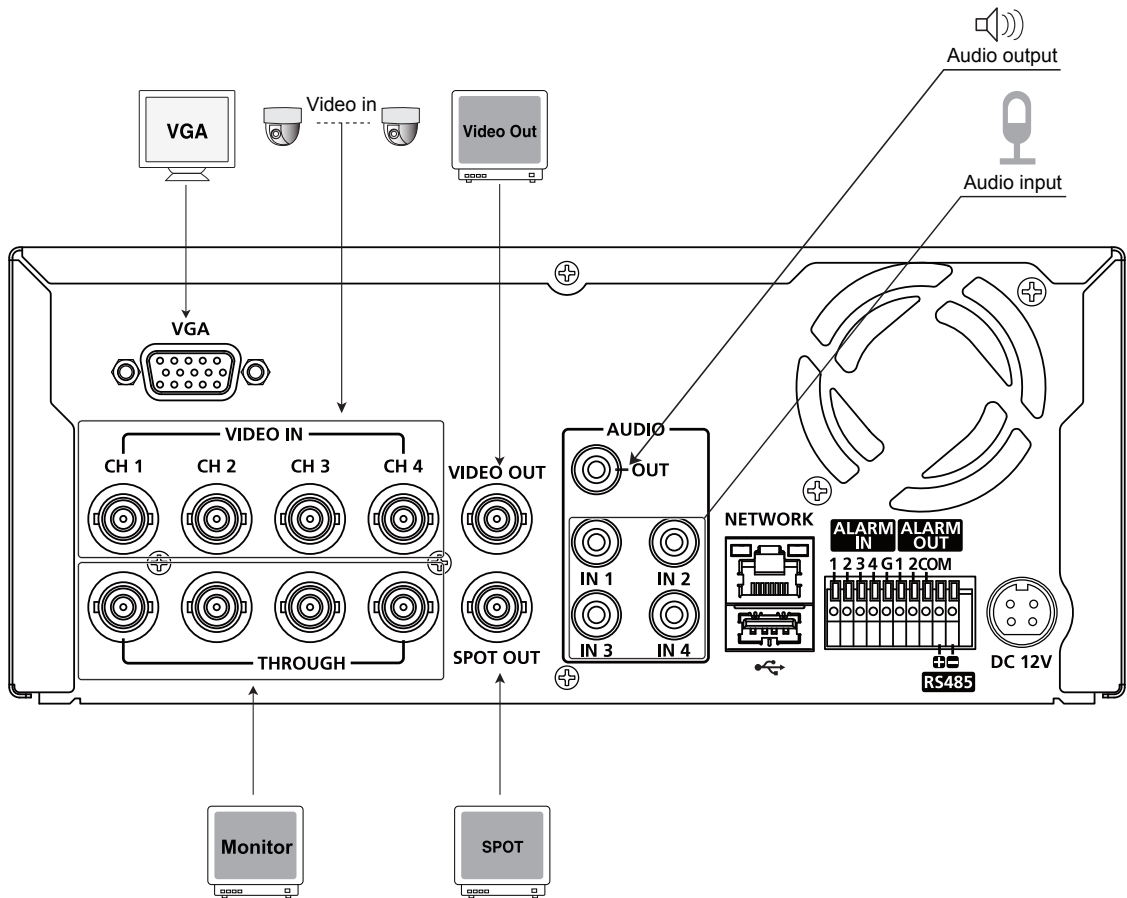
Figure 2

Please keep the following instructions for rack-mounting the Samsung DVRs to proceed with the installation.

1. The rack on which the DVR is mounted should not be sealed off.
2. And it also can allow air circulation through the vent.
3. As shown in the Figure 2, we recommend you to heap the product with other DVRs or use rack-mount devices at a certain space, or install a vent system to accommodate airflow.
4. For forming a natural convection, the air intake hole should be positioned at the bottom and the emission at the top.
5. We recommend you to install each of the air intake and emission holes with fan motors for sufficient airflow. (The air intake fan should be equipped with a filter to prevent possible inflow of dust and other impurities.)
6. As shown in the Figure 1, the temperature inside the rack and around the DVR should maintain between 5 and 45°C.

connecting with other devices

CONNECTING VIDEO, AUDIO, AND MONITOR

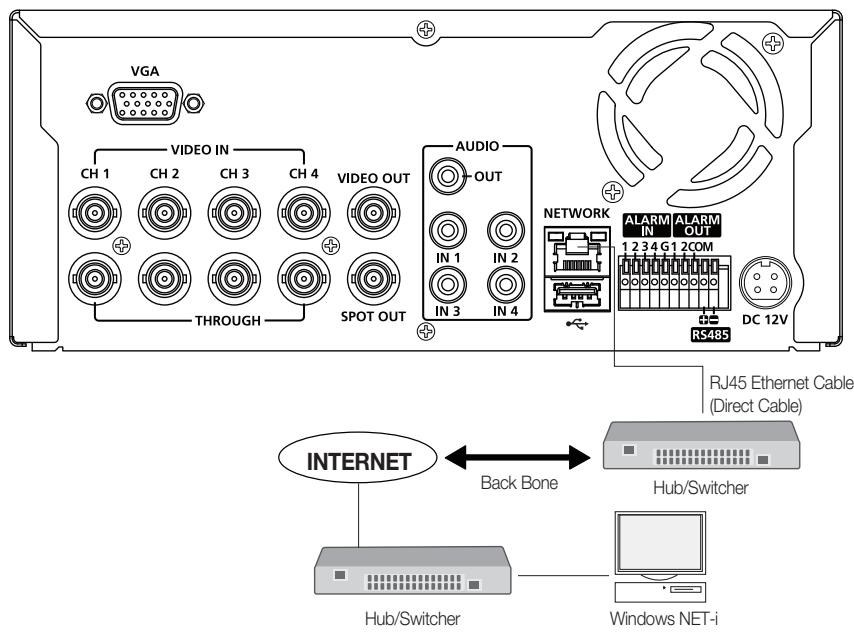


Caution

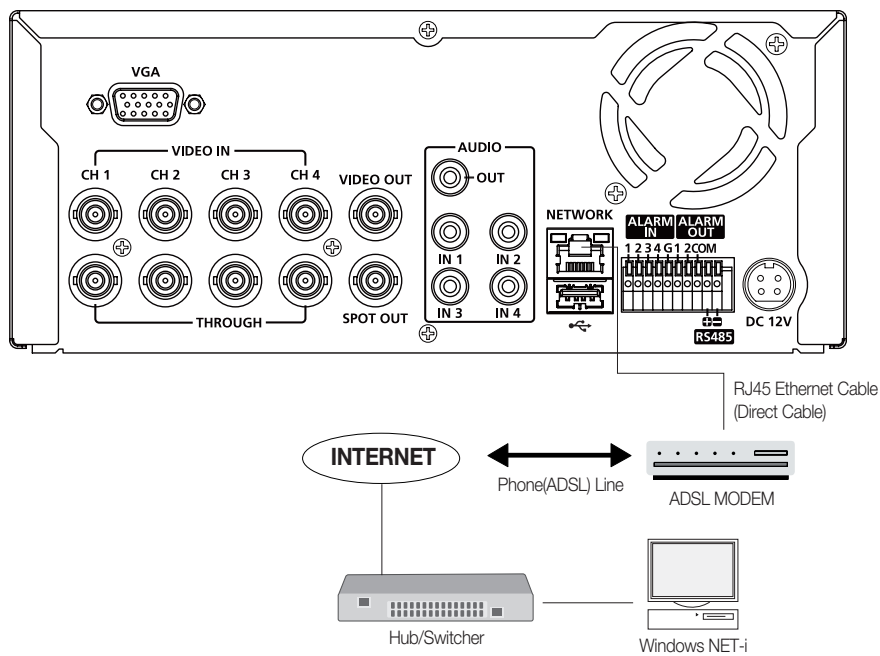
- Depending on whether or not the power cable is grounded, there could be high voltage electricity flowing through the video cables connected to the camera. Therefore, it's important that you connect the video cables to the VIDEO IN terminal with the system's power turned off.

CONNECTING THE NETWORK

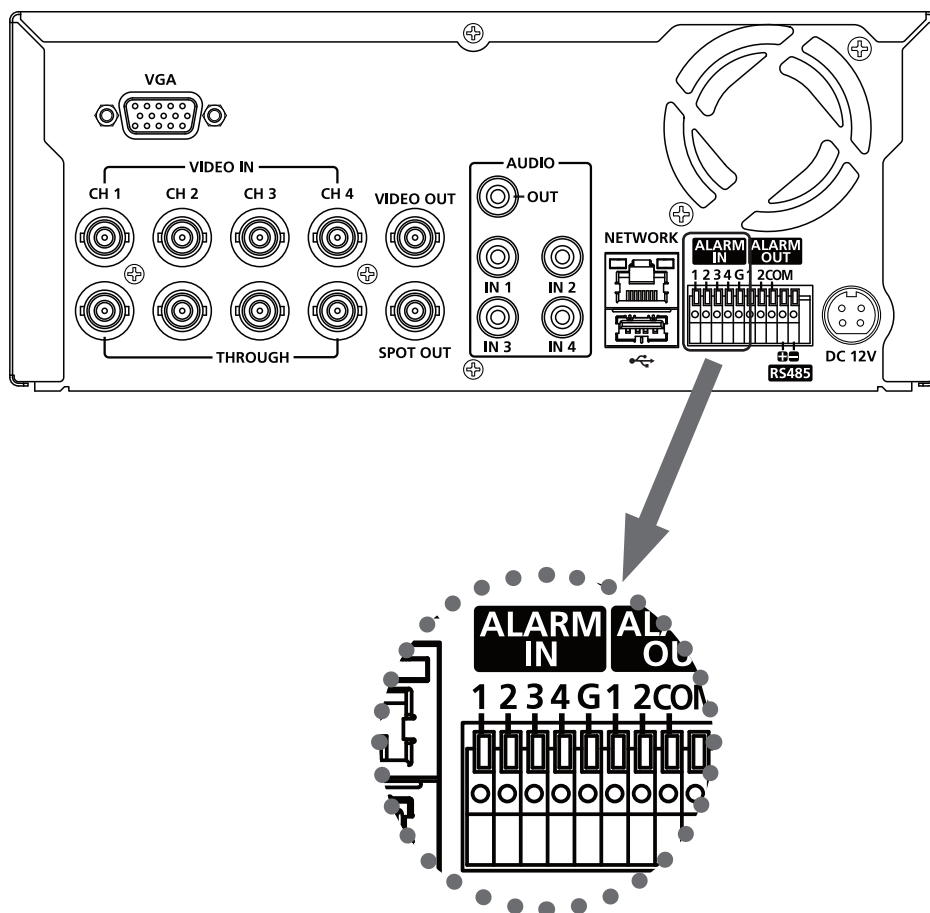
Connecting to Internet through Ethernet (10/100BaseT)



Connecting to Internet through ADSL



CONNECTING THE ALARM INPUT



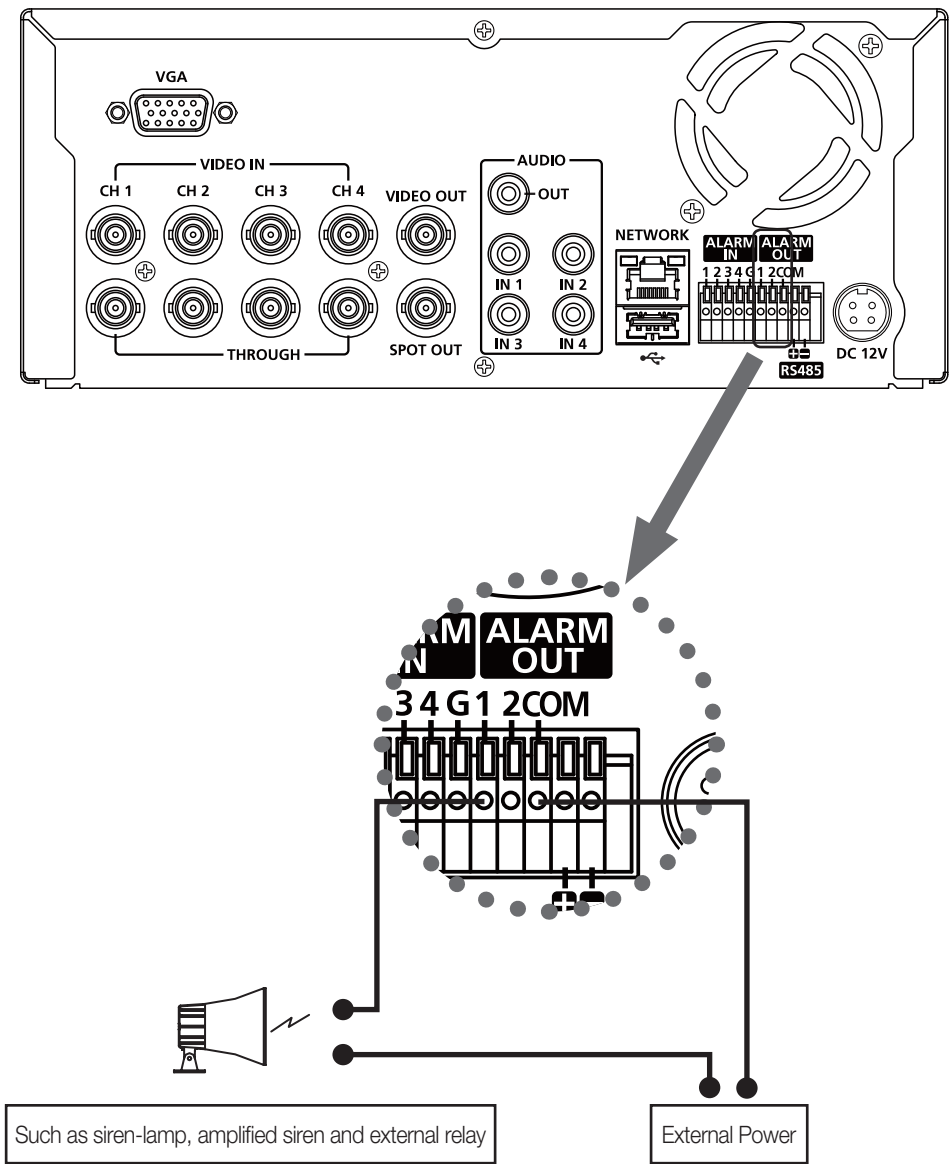
Connect one wire of the signal cable (2 wires) of various sensors (such as IR sensor, hot-wire detector and magnetic sensor) to the GROUND port and connect the remaining signal wire to the desired ALARM input port number.



Caution

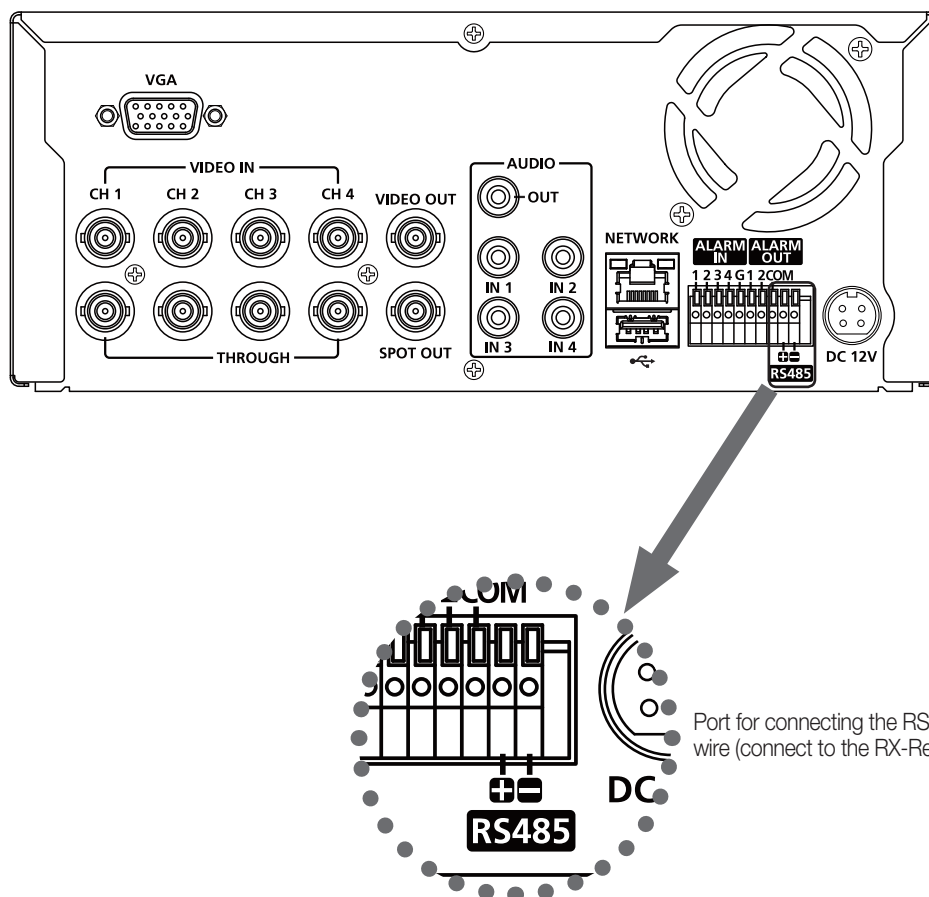
- Please use the power ADAPTER suitable to the power specifications of various sensors.

CONNECTING THE ALARM OUTPUT



Connect one wire of the signal cable (2 wires) of an external device (such as siren-lamp, amplified siren and external relay) to the GROUND port and connect the remaining signal wire to the desired ALARM output port number.

CONNECTING THE RS-485 DEVICE



Port for connecting the RS-485 signal wire (connect to the RX-Receiver)



Caution

- Please check that the RS-485 device is supported by the SHR-6040/6042 product. And, a caution shall be made when connecting to the RS-485 jack since it has the polarity (+ and -).

CONNECTING THE USB

1. It has a total of 2 USB connection ports on the front and rear sides of SHR-6040/6042.
2. Connect the USB HDD, USB memory through the front/rear ports of SHR-6040/6042.
3. Only one USB device can be connected to each USB port.
4. It provides the hot-plugging function that allows connecting/disconnecting a USB device while operating the system.

OPERATING THE SYSTEM

Turn on the power and the following Samsung logo appears.



- Perform the initialization job to operate the system after the logo screen has appeared.
- The live video appears if the initialization process is normally completed.
- It may take about 40 to 60 seconds until the live video appears.
- When the live video appears, the system setup environment set previously will be maintained; and if the system has been re-started, the live video will appear and you can start recording.

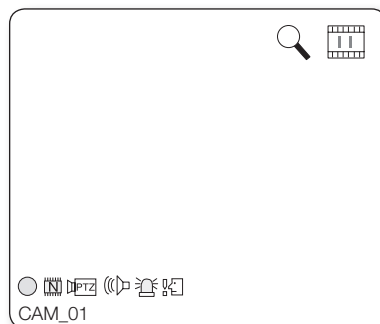


- When installing a new HDD, it may require much more time until the live video appears due to the HDD initialization time.
- If the live video does not appear, please check whether the internal and external connections are normal. If the problem persists, please contact the place where you have purchased this product.

LIVE SCREEN MODE

Live screen icons

The live screen icon indicates the setup and function status of each screen.



●/E/S : **Recording** Icon

It indicates the states of REC recording / Event (motion + alarm) / Continuous recording.

■/■/■ : **Recording Video Size** Icon

It shows the respective recording sizes of Large/Normal/ CIF.

- **Large:** Full D1 - (NTSC) 704X480
(PAL) 704X576
- **Normal:** Half D1 - (NTSC) 704X240
(PAL) 704X288
- **CIF:** CIF - (NTSC) 352X240
(PAL) 352X288

: **Record Lock** Icon

It indicates that the record lock is activated.
This icon appears when you are recording video images while the record lock is set. To cancel the recording, enter the preset password.

/ : **PTZ** Icon

The channel that the PTZ function has been set shows the PTZ icon. It is changed to yellow when the PTZ function is now active.

/ : **Audio** Icon

This icon indicates the Audio On/Off state and if it is turned on, the icon is changed to yellow.
This icon does not appear when the Video or Audio is disabled.

: **Alarm In** Icon

It appears when an event from the Alarm In is detected.

: **Motion** Icon

It appears when a motion event occurs.

: **Zoom** Icon

The Zoom icon appears when Zoom In is active and disappears when inactive.

: **Freeze** Icon

It appears when the Freeze function is active and disappears when it is cancelled.

: **Insufficient HDD Space** Icon

It appears when the HDD writing space is not enough.

: **locked** Icon

It appears when the HDD is inferior goods.

: **Screen Switching** Icon

It appears when it is in the screen switching mode.

V.Loss / V.Off : Video Input Status

If no video inputs are detected even when the Video Setup is set to On, the [V.Loss] icon appears on the corresponding channel; and the channel that the Video Setup is set to Off shows the [V.Off] icon.



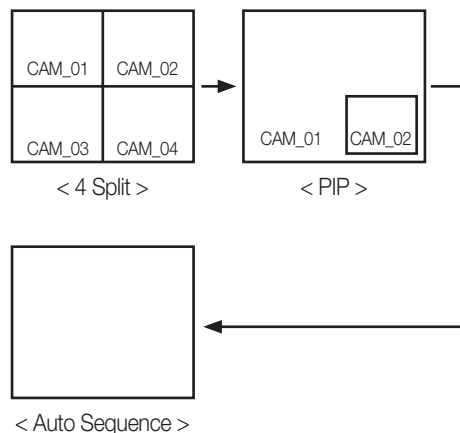
OSD Position Control Function

Caution

- It is possible to control OSD position of CH1, CH3 and CH4 on live screen by Up/ Down/Left/Right buttons when in quad division mode.

Live screen modes

After taking 4 live video inputs, images are displayed in the following 3 modes.



• **4 Split Mode:**

It shows 4 video channels on the respective split screens.

• **PIP (Picture in Picture):**

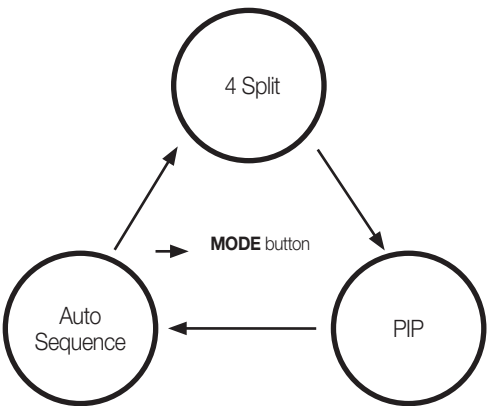
The 1/4-sized small screen appears on the full screen. The channels for both full and small screens can be arbitrarily selected. The location of PIP screen can be set to any of 5 locations within the full screen by using the ▲ or ▼ button.

• **Auto Sequence Mode:**

Multiple channels are sequentially displayed on the full screen at the preset interval.

Selecting live screen mode

Each mode can be selected by using the **MODE** button and **CH1** to **CH4** buttons.
The following figure shows the diagram of changing modes.



- The starting mode is the 4 split screen mode.
- Modes except for the full screen can be sequentially selected by using the **MODE** button.
- Whenever pressing the **MODE** button, the mode is switched in the following sequence: [4 Split] → [PIP] → [Auto Sequence] → [4 Split].
- You can see the full screen for each channel by selecting the respective buttons of **CH1~CH4**.
- When switching to the full screen from the split screen mode, you can return to the previous split mode screen by pressing the **MODE** button.


SETTING THE AUDIO ON/OFF

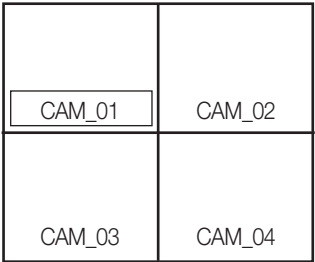
From the split mode except for the auto sequence mode, any channel displayed on each split mode can be arbitrarily selected. you can activate or deactivate the channels.

Audio On/Off setting in the full screen mode


In the full screen mode, the audio function of the selected channel is automatically turned on and you can set the Audio On/Off function by toggling the **AUDIO** button. The **Audio** icon is changed to yellow or white on the corresponding channel according to the Audio On/Off state.

Audio On/Off setting in 4-split mode

If you press the **Enter**() button in the 4 split mode, the selection cursor appears as shown in the figure below and the corresponding channel is selected.
If the **AUDIO** button is pressed after selecting a channel, you can set the Audio On/Off function of the corresponding channel. At this time, the audio icon is changed to yellow or white on the corresponding channel according to the Audio On/Off state.



Channel Selection & Audio On/Off Setting in PIP mode

If you press the **Enter**() button in the PIP mode, the selection cursor appears and the corresponding channel is selected.
After selecting a channel, you can enter the channel using the **CH1** to **CH4** buttons and can set the Audio On/Off function as in the 4 split mode by using the **AUDIO** button. At this time, the **Audio** icon is changed to yellow or white on the corresponding channel according to the Audio On/Off state.

FREEZING AND ZOOMING

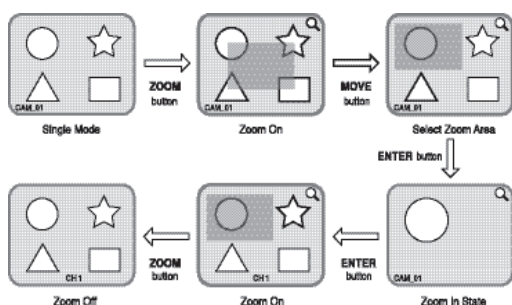
Freeze function

The Freeze function, temporarily stops the video on the current live screen but it is active only in the live mode. You can set the Freeze On/Off function by using the **FREEZE** button.

Zoom function

The Zoom function doubles the size of the selected area but it is active only in the full screen mode.

The zoom setup area appears when the **ZOOM** button is pressed in the full screen mode. You can adjust the location of the zoom setup area by using the **Direction** (▲▼◀▶) buttons. If you press the **Enter** (⏎) button after selecting a setup area, the selected area is shown twice as big as the previous size. The image location can be adjusted by using the **Direction** (▲▼◀▶) buttons even after enlarging the size. If the **Enter** (⏎) button is pressed again under the enlarged state, it will return to the zoom setup area and you can perform the Zoom Off function by using the **ZOOM** button.



EVENT MONITORING

The event monitoring function displays the channel linked to the event when a specific event (sensor/motion) occurs. The event monitoring On/Off and event Duration functions can be set by using the command "**MENU**" → "**Monitoring**" → "**Live Mode**".

When the event monitoring time has been set to 30 seconds, for example, the channel-2 appears for 30 seconds in the full screen mode if an event initially occurs in the channel-2 as shown in the figure below. If another event occurs within 30 seconds, it is also displayed together with the existing event.

When events occur from the channels 1 and 3 within 30 seconds after an event has occurred in the channel 2 (as shown in the figure). Then, the channels 1, 2 and 3 are switched to the full screen.

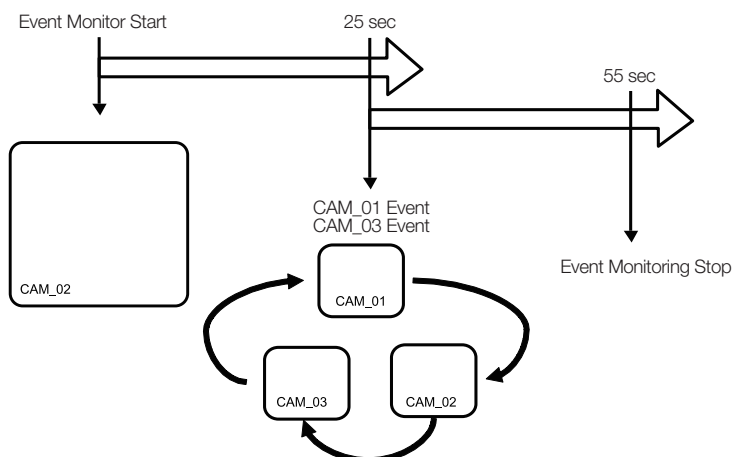
If no new event occurs within the event display duration, it will return to the previous live mode. If you press the **ALARM** button before the event display time exceeds, the event monitoring stops. If an event occurs, the ALARM LED lights and the ALARM LED is turned off if you press the **ALARM** button while the LED lights. The alarm setting is initialized when the **ALARM** button is pressed. In this case, the Event icon disappears. The monitoring function can be cancelled while in event monitoring. The event recording with pre-event time and post-event time resumes after a new alarm occur.

SPOT-OUT MONITORING

The Spot-out monitoring is the function that monitors the entire screen of a specific channel with the output different from the live screen output. If a monitoring item is selected from the menu screen, you can select a specific channel as the Spot-out channel among the channels 1 to 4 and you can also monitor all the channels at an interval of auto sequence time. The live screen icons do not appear for Spot-out monitoring.

At this time, the auto sequence time interval is identical to the auto sequence time of the Spot mode.

The smallest number Channel from in the event occurs Channel is print as Spot.



menu setup

BEFORE USE

- **Selection**

The yellow cursor shows the current selection window. As for the directional operation, move the cursor on the menu that you want to change by using the **direction** (▲▼◀▶) buttons on the front panel of the system. It enters the sub window if you press the **Enter** (↵) button when the cursor is located on the desired menu. To select an item from the menu, press the **Enter** (↵) button. On a drop-down menu, use the ▲ or ▼ button to move the cursor on your desired item.

- **“OK” and “Cancel” in Each Setup Window**

Once any changes are made in a setup window, they can be applied by selecting “OK”. When “Cancel” is selected, the changed settings are not applied and it returns to the upper menu.

- **MENU and SEARCH Buttons**

The **MENU** or **SEARCH** button, if pressed first, acts as an entrance button. After an entrance menu appears, if the button is pressed, the screen changes to the previous page.

- **Symbol(▶) Next to the Title**

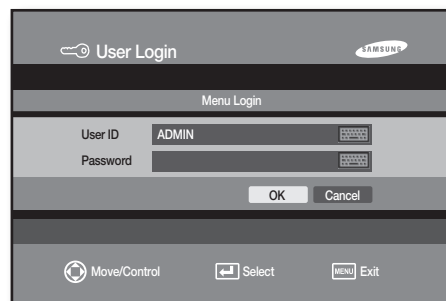
It displays the drop-down menu when selected.

- **Virtual Keyboard**

Inputting characters is enabled by (⌨) or (📄). For entering a character, move the cursor on a desired character key and press the **Enter** (↵) button.

USER LOGIN

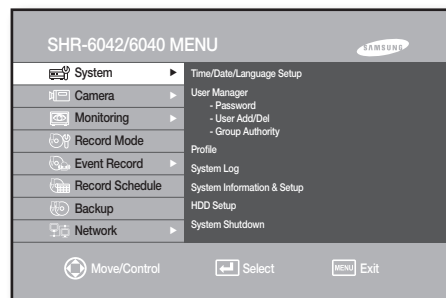
Press the **MENU** button in order to enter the menu screen.



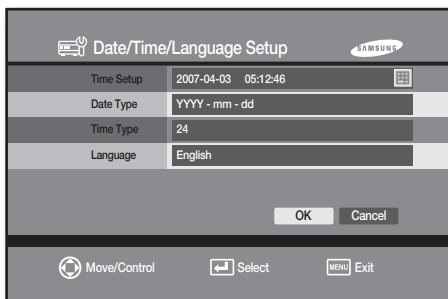
In order to use various DVR functions such as the system environment setup and search, you need to log on to the system with the proper user privilege. You can log on to the system by entering the user ID and password. When shipped Product, user ID is set with 'ADMIN', and password is set with '4321'.

SYSTEM

The details of the system menu are as follows:

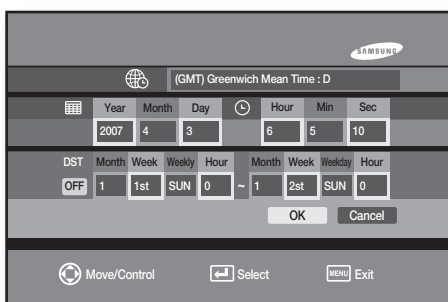


Time/Date/Language Setup



• Time Setup

The following screen appears if the **Enter** (↵) button is pressed.



Select the standard time zone suitable to the corresponding region.

To change the date and time, move the cursor to the corresponding item and press the **Enter** (↵) button. Then, change the day/month/year or second/minute/hour using the **▲** or **▼** buttons. Escape from the change mode by pressing the **Enter** (↵) button again. When the time is changed, the date and time will be halted until **OK** or **Cancel** is pressed.



Caution

- If the date and time are changed to earlier values, the data written prior to the change may be deleted. For example when the 8 o'clock in the morning is changed to the 7 o'clock in the morning, the data written between 7 and 8 in the morning will be deleted.

• DST (Daylight Saving Time)

DST sets the clock one hour ahead the local standard time. This setting enables the system to display the time adjusted for DST. If the date set for DST comes, the system time runs one hour faster.

If the DST is set to **OFF**, it will not be applied. It is impossible to enter the date menu on the right. When you set the DST to **ON**, designate the start time on the left and the end time on the right while basing on the **~** mark.

• Date Type

It supports a total of 9 formats (such as Year-Month-Day / Day-Month-Year / Month-Day-Year).

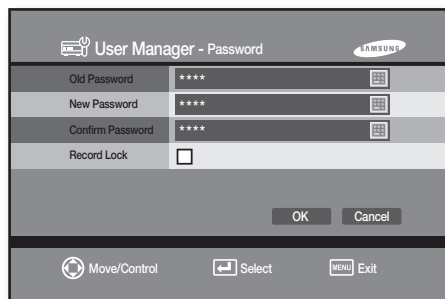
• Time Type

It supports two formats of 24 hours / 12 hours (AM/PM).

• Language

After selecting a language, OSD is displayed in the selected language. The available languages are displayed in the list.

Password



• Old Password

When this product is shipped, the password of **'ADMIN'** user account will be set to **'4321'**.

• New Password

A virtual keyboard will appear if the **Enter** (↵) button is pressed. You can input characters one by one up to 16 characters.

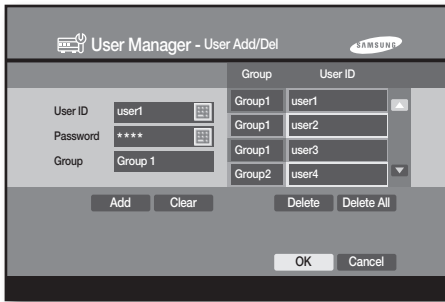
• Confirm Password

This is the menu for confirming a newly changed password.

• Record Lock

If the **Record Lock** is set to **On**, a pop-up window, asking for the password appears while disabling the recording.

User Add/Del



• User Add

You may enter "**User ID**" and "**Password**".

As for the group that the user can belong to, select one from "**Group1**", "**Group2**" and "**Group3**".

After granting user rights by each group, designate a user to that group.

If you press "**Add**", the entry is registered to the list on the right.

If you press "**Clear**", the User ID and Password on the left are deleted.

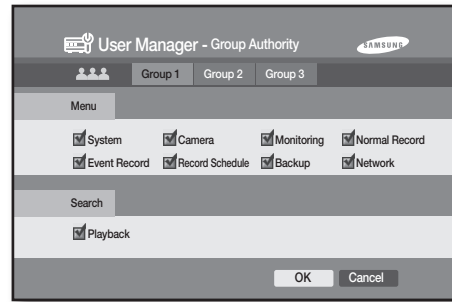
• User Delete

After moving the cursor on the User ID to be deleted from the list on the right, select it by pressing the **Enter**(↵) button.

If you press "**Delete**", only the selected User ID is deleted from the list.

If you press "**Delete All**", all the User IDs registered to the list are deleted.

Group Authority



• Group

User group is divided into 3 groups of Group1, Group2 and Group3.

Press the **Enter**(↵) button after moving the cursor on the group that a user right is to be granted.

• Menu

You can grant the system setup and monitoring rights to the group partially or entirely.

As for the right granting setup, you can set/cancel it by pressing the **Enter**(↵) button after moving the cursor on the corresponding item.

The "**System**" item allows granting the rights for 'Time/Date/Language Setup', 'User Manager', 'Profile', 'System Log', 'System Information & Setup', 'HDD Setup' and 'System Shutdown'.

The "**Camera**" item allows granting the rights for 'Camera Configuration', 'PTZ Device' and 'Screen Setup'.

The "**Monitoring**" item allows granting the rights for 'Live Mode' and 'Spot Mode'.

The "**Record Mode**" item allows granting the setup rights for 'Quality', 'Frame' and 'Video Size'.

The "**Event Record**" item allows granting the rights for 'Event Record Setup', 'Alarm Detection Setup', 'Motion Detection Setup' and 'Video Loss Detection Setup'.

The "**Record Schedule**" item allows granting the recording schedule setup right.

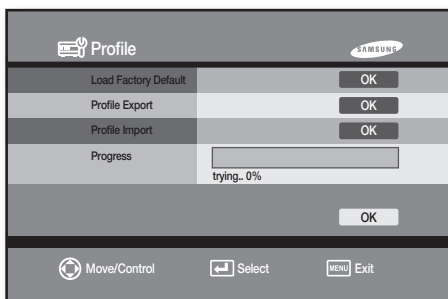
The "**Backup**" item allows granting the backup setup right.

The "**Network**" item allows granting the rights for 'IP Setup', 'IP Test', 'DDNS Setup', 'NTP Setup', 'Callback Setup' and 'Transfer Picture Setup'.

• Search

The **"Playback"** item allows granting the search right.

Profile



• Load Factory Default

This function is used when you reset all menu setting values to the factory default values.

If you press **"OK"**, the restart message window appears. You can select **"Yes"**. The recorded data will not be deleted.

• Profile Export

Allows you to configure multiple DVR units with ease. This function is used when you export the profile currently set to the system to the storage device connected to a USB port. The profile file will be copied to the USB memory if you press **"OK"**. (Filename: SetupData.tar)

• Profile Import

This function is used when you import the system profile file stored in a USB memory and apply to the current system. The profile file will be copied to the current system if you press **"OK"**. Then, the restart message window appears. You can select **"Yes"**.

• Progress

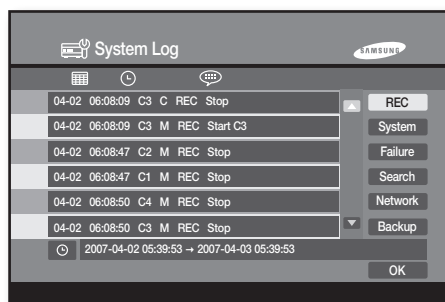
This function will show the progress status of the job that the system is currently executing.



Caution

- Please do not remove the USB memory when you run the profile export/import function. The system profile file may not be copied properly or may not be applied to the system.
- When the system profile file that is included the value for network setup applies for another DVR, an IP address conflict may occur due to the same address. If so, please reset the network configuration to avoid an IP address conflict.

System Log



This function shows a series of logged tasks made in operating the DVR system and when the system runs abnormally, it allows finding the error easily so that the problem can be fixed.

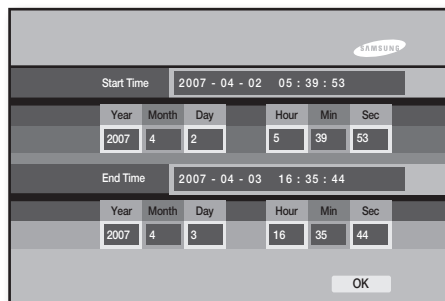
Press the **Enter** (↵) button after moving the cursor on the desired log item.

⬅️: Move to the previous page.

➡️: Move to the next page.

• Scope Designation

If the ⌚ icon is pressed, the following screen appears.



For the log data, set the **"Start Time"** and **"End Time"** to be searched. To change the date and time, move the cursor to the corresponding item and press the **Enter** (↵) button. Then, change the day/month/year or second/minute/hour using the **▲** or **▼** buttons. Escape from the change mode by pressing the **Enter** (↵) button again.

- **REC**

Displays the recording information according to the recording event and schedule.

- **System**

Displays the system start/stop, system access user and setup change information.

- **Failure**

Displays the error information that occurs due to the hardware failure.

- **Search**

Displays the time information between the entry and exit of the search mode.

- **Network**

Displays the time and IP address for the connected system through the remote software.

- **Backup**

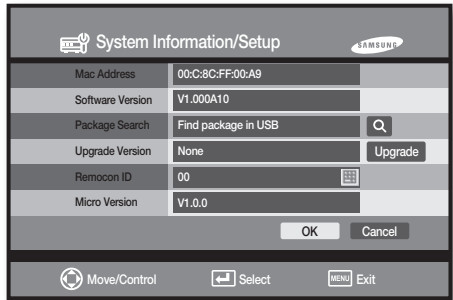
Displays the backup information.

System Log List

Log Type	Log Details	Description
REC	C(Channel) C REC START/STOP	Continuous Recording Start/Stop
	C(Channel) A REC START/STOP	Alarm In Recording Start/End
	C(Channel) M REC START/STOP	Motion Recording Start/End
System	SYSTEM START/STOP	System Power ON/OFF
	SYSTEM NET TIMESET	System Time Change
	SYSTEM SHUTDOWN	System Termination
	SYSTEM REBOOT	System Restart
	SETUP START/END	Menu Mode Login/Logout
	HDD Format M	HDD(Master) Format
	HDD Format S	HDD(Slave) Format
Failure	VIDEO LOSS START/STOP	Video Loss/Recovery
	SMART ERROR HDD-M	HDD(Master) Smart Check Failure
	SMART ERROR HDD-S	HDD(Slave) Smart Search Failure

Log Type	Log Details	Description
Search	SEARCH IN/OUT	Login/Logout with the Search Mode
Network	NETWORK CONNECTED	Remote Software Connection
	NETWORK DISCONNECTED	Disconnecting the Remote Software Connection
BACKUP	BACKUP AVI-OK/FAILED	AVI Backup Success/Failure
	BACKUP SDB-OK/FAILED	SDB Backup Success/Failure
	BACKUP SFX-OK/FAILED	SFX Backup Success/Failure
	USB PROBLEM DETECTED	Removing the Media While Backing up to a USB Storage
	CD-ROM WRITE FAIL	CD Write Failure
	CD MEDIA SIZE FULL	No CD Space Remained
	CD MEDIA NOT EXIST	No CD Media

System Information & Setup



- **Mac Address**

Displays the unique number of the network hardware device attached to the system.

- **Software Version**

Displays the current software version.

- **Package Search**

After connecting the USB device (holding the DVR software) to a USB port, press the (🔍) icon and the DVR software will be automatically searched. If the DVR software does not exist in the USB device, the upgrade version will not be displayed.

- **Upgrade Version**

The software version to be upgraded will be shown. If you press the “**Upgrade**”, the restart message window appears. You can select “**Yes**” to proceed with the upgrade.

- **Remocon ID**

In order to control the DVR with a remote commander, set the DVR and the remocon ID.

- **Micro Version**

This menu indicates firm wear version of Microprocessor

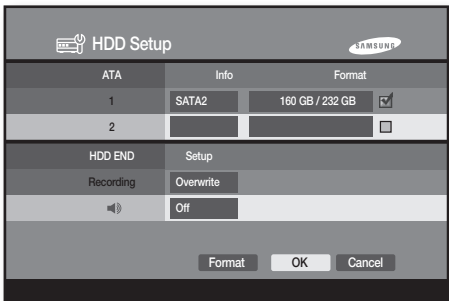
⚠ Caution

- For the DVR to recognize the update file the file should be inserted into a folder named “update”. So this folder should be created on a USB memory and then the upgrade file copied inside the folder.
- When upgrading the software, you must neither turn off the power nor remove the USB device. The system may run abnormally.
- When using a USB memory, please use the USB device that can support Linux 2.6.0 or higher. The system cannot support the device that does not support Linux.
- The file system for the USB device must be either FAT16 or FAT32. The system does not support NTFS or other file systems.
- Since some USB devices either have no power supply or have a low voltage, a separate power supply may be needed to recognize them.



- When shipping this product, the remote controller ID is set to ‘00’.
- When changing the remote control ID, press “**Remocon ID**” and enter the DVR ID.


HDD Setup



- **HDD Info**

Shows the installed HDD information and the capacity.

• HDD Format

When initializing the HDD, move the cursor to the corresponding HDD and press the **Enter**() button. Then, the (Format) icon is activated.

If you press "**Format**", the HDD format window appears. You can select "**OK**" to initialize the HDD.

• HDD END

Stop: Recording stops when the HDD becomes full while in recording.


OverWrite: If the HDD becomes full while in recording, the data recorded at the earliest time will be deleted and new data will be written.

• HDD END ALARM ()

On: If the HDD becomes full while in recording, it gives an alarm.

Off: If the HDD becomes full while in recording, it does not give any alarm.



- If the HDD space is not enough, the Disk_Full () icon appears.



Caution

- Because all data will be deleted when the HDD formatting is executed, please proceed with the initialization after backing up important data to other place.
- If the repeated HDD recording is set to "**OverWrite**" and the data to be backed up are overwritten, either the backup start time can be changed or the backup is cancelled.



Caution

Checking HDD Data

Please, pay attention to Following information to minimize the chance of losing HDD data.

- Remember that you should protect HDD from any impact or misuse as this may cause damaged.
- The Manufacturer is not responsible for missing data or defects caused by the user's mishandling.

Note: Adding Extra HDD.

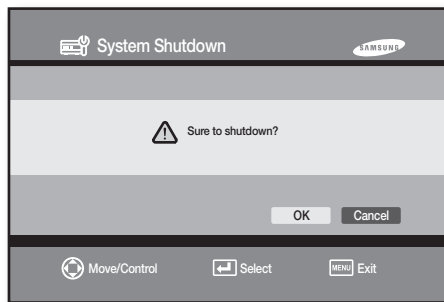
Check in advance that the HDD is compatible with the manufacturer's DVR.

Examples that can cause loss of data or damage HDD.

- Any outside Impact on the case which could happen whilst disassembling or setting up the DVR.
- Power cut or incorrect shutdown whilst the DVR is operating. (Refer to page 27: how to turn off DVR)
- Moving or causing any impact on the DVR during operation.

Please, back up events as soon as possible to minimize disappointment should HDD data be lost.

System Shutdown



This function is used when either terminating the running jobs safely or turning off the power.

If you see the system shutdown message after pressing "**OK**" on the confirmation window, turn off the power.

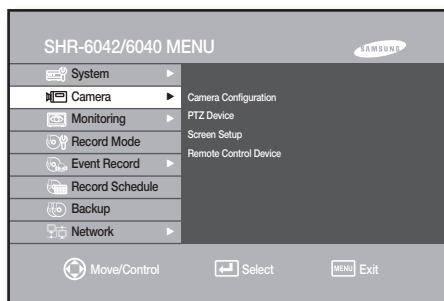


Caution

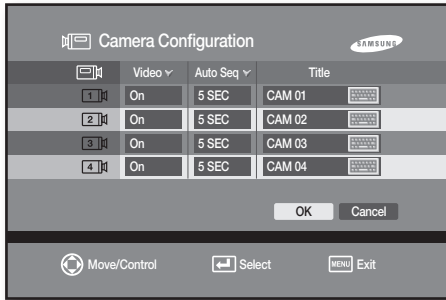
- If the system is turned off without terminating it using the system shutdown menu, it may cause a problem such as data loss and disk failure. When turning off the power, please terminate the system first using the system shutdown menu.

CAMERA

The details of the camera menu are as follows:



Camera Configuration



• Video

On: It shows the video of the selected channel.


Off: It does not show the video of the selected channel.

Covert: It shows the remaining information except for the video information of the selected channel.

• Auto Seq

You can set the auto sequencing interval for each channel. The setting applies in the live mode. The channel set with “Off” or “Covert” is not shown in the auto sequence mode.

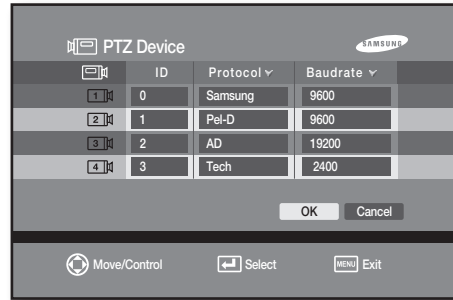
• Title

The camera name of the selected channel can be set. A virtual keyboard appears if you press the **Enter**() button.

Characters can be input one by moving the cursor. You can input up to 10 characters. If you press “Shift”, you can input the uppercase letters and numeric keys.




PTZ Device




• ID

Select the PTZ ID(0~99).

• Protocol

In order to set the PTZ function, move the cursor to the desired channel and press the **Enter**() button. Then, select PTZ by using the **▲** or **▼** button.

Escape from the change mode by pressing the **Enter**() button again. This product supports the protocols of Samsung, Vic., Pan., AD, Phi., Pel-D, Pel-P, Ern, Vcl., Dia., Kal., and Tech.

• Baudrate

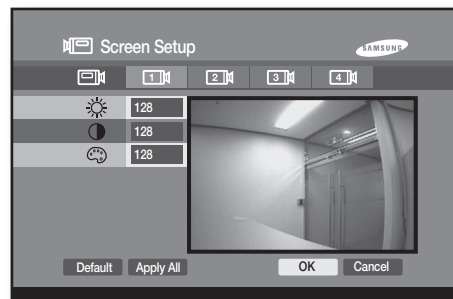
Select the PTZ Speed.
(2400/4800/9600/19200/38400)



The above items should be matched with the settings of PTZ device. For more details, please refer to the manual provided by the PTZ device manufacturer.

Only the Half Duplex method is supported for transmission.

Screen Setup



This is the screen that sets the Brightness/Contrast/Color values for the camera image of each channel.

Place the cursor on the the desired channel for adjustment and select it to set the Brightness/Contrast/Color values.

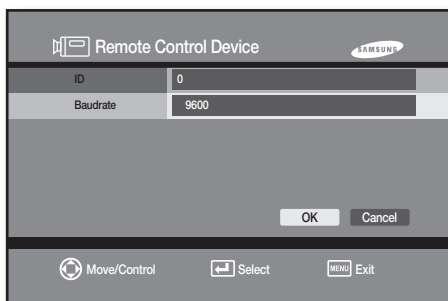
The selected channel appears within the PIP zone on the right.

The adjustment can be made from '0' to '255' using the **▲** or **▼** button.

If you press "**Apply All**", the values for the last updated channel are copied to entire channels.

If you press "**Default**", the values for the current channel are reset with '128'.

Remote Control Device



This window allows you to control the functions of DVR by using the system controller keyboard (SSC-2000, SSC-5000).

- **ID**

Selects the ID of the system controller keyboard.

- **Baudrate**

Selects the transmission speed of the system controller (1200/2400/4800/9600/19200/38400).

Available System Controller Keyboard

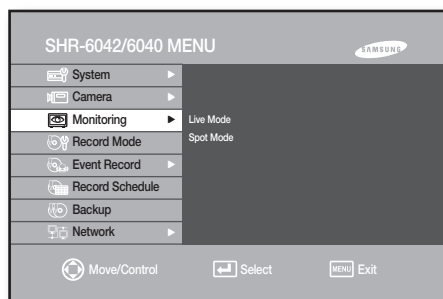
NO	Manufacturer	Model Name
1	SAMSUNG	SSC-2000, SSC-5000



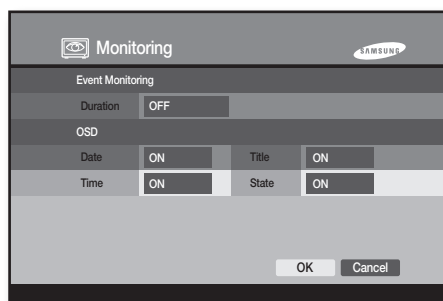
- The items above should match the settings of the system controller keyboard. For further information, refer to the manual provided by the manufacturer of the system controller keyboard.
- This device supports only half duplex as a transmission method.

MONITORING

The details of the monitoring menu are as follows:



Live Mode



- **Event Monitoring Duration**

It can be set to any of Off, 30 seconds, and CONTINUE.

OFF: The event monitoring that switches to the event screen does not operate.

30 Seconds: It sets the display duration of the current channel until the next channel is displayed.

CONTINUE: The event monitoring screen will be maintained until it is cancelled by pressing the **ALARM** button on the front panel.

- **OSD**

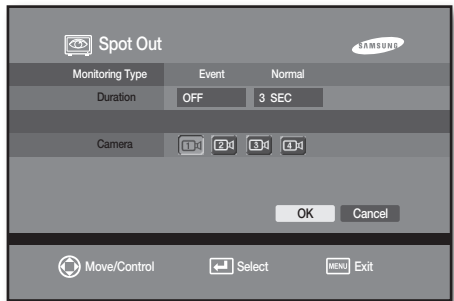
Date: When it is On, the date will be displayed on the screen. When it is Off, the date will not be displayed on the screen.

Time: When it is On, the time will be displayed on the screen. When it is Off, the time will not be displayed on the screen.

Title: When it is On, the camera name will be displayed on the screen. When it is Off, the camera name will not be displayed on the screen.

State: When it is On, the Audio/PTZ will be displayed on the screen. When it is Off, the Audio/PTZ will not be displayed on the screen.

Spot Mode



When you have two monitors, the Spot Out channel can be used for monitoring a specific channel on a dedicated monitor.

- **Event Duration**

Sets whether or not to run the Event Monitoring function for the Spot-out channel. It can be set to any of Off, 30 seconds, and CONTINUE.

OFF: The Event Monitoring function is not available on the Spot Out channel.

CONTINUE: The Event Monitoring screen will be maintained until it is cancelled by pressing the **ALARM** button on the front panel.

- **Normal Duration**

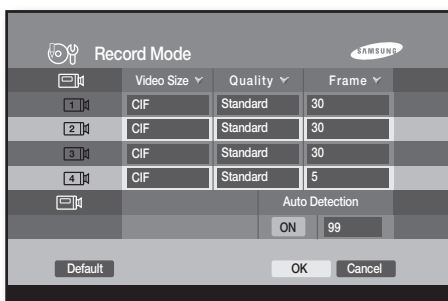
1~60 Seconds: It sets the display duration of the current channel until the next channel is displayed.

- **Camera**

Sets the desired channel for use with the Spot Out function.

RECORD MODE

The details of the record menu are as follows:



Set the recording mode values to be applied when pressing the **REC** button on the front panel.

- **Video Size**

Set the screen size for recording.

Video Source	Full D1	Half D1	CIF
NTSC	704 X 480	704 X 240	352 X 240
PAL	704 X 576	704 X 288	352 X 288

- **Quality**

Sets the recording video quality.

Set to any of Very High, High, Standard and Low.

- **Frame**

Sets the number of frames for recording. The number of frames refers to the number of screens recorded per second.

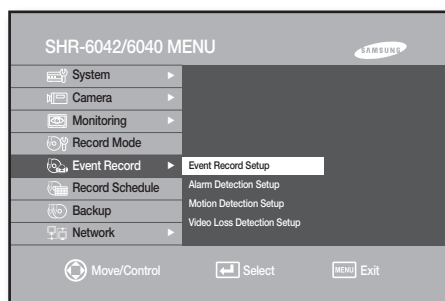
- **Auto Detection**

You can select any of **OFF** and **ON** by pressing “**OFF**.” If “**ON**” is selected, the date for search is limited. The date can be limited to 1 to 99 days. If “**OFF**” is selected, the cursor cannot be moved to the date selection area and the date for search is not limited. If you press “Default”, it returns the initial values.

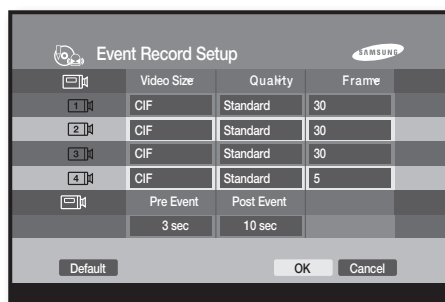
Frame rate setting must be not until go over NTSC 90 fps, PAL 75 fps Frame rate by each channel of both Recording mode and Event Recording mode in Full D1 standards.

EVENT RECORD

The details of the event recording are as follows:



Event Record Setup



Set the recording mode values to be applied when an event occurs.

- **Video Size**

Screen setup size displayed on record mode.

Video Source	Full D1	Half D1	CIF
NTSC	704 X 480	704 X 240	352 X 240
PAL	704 X 576	704 X 288	352 X 288

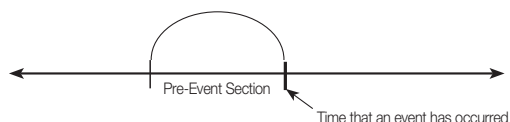
- **Quality**

Sets the recording video quality for any event.

- **Frame**

Sets the number of frames for recording. The number of frames indicates the number of screens recorded per second.

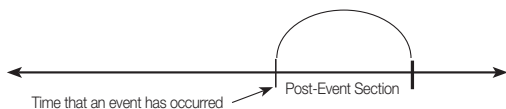
- **Pre Event**



Record the pre-conditions from the point that an event has occurred.

3~5 Seconds: Set the recording time prior to the event occurrence.

• Post Event



Record the post-conditions from the point that an event has occurred.

After event occurring, sets recording time in **5 seconds ~5 minutes**, and 1 hours.



- If the 1-channel DVR support is set to On in the monitoring menu, the resolution is changed to Full D1.

Alarm Detection Setup

Alarm In	State	Camera	Alarm-Out	Duration
Alarm In 1	N.O	1	None	10 SEC
Alarm In 2	N.O	2	None	10 SEC
Alarm In 3	N.O	3	None	10 SEC
Alarm In 4	N.O	4	None	10 SEC

OK Cancel

Move/Control Select MENU Exit

• State

The Alarm In type can be set to “**N.O**” or “**N.C**”.

N.O (Normally Open): Sensor remains open. But if it gets closed, an alarm is issued.

N.C (Normally Closed): Sensor remains closed. But if it gets open, an alarm is issued.

• Camera

Sets the camera linked to the current Alarm In. The default value is set to the current Alarm In number. At least one link between Alarm In and camera has to be established. Multiple selections are possible. The following screen will appear if the **Enter** button is pressed by moving the cursor from the camera item.

Camera 1 <input checked="" type="checkbox"/>	Camera 2 <input type="checkbox"/>	Camera 3 <input type="checkbox"/>
Camera 4 <input type="checkbox"/>	All <input type="checkbox"/>	

OK Cancel

• Alarm Out

Sets an alarm-out method when an event has occurred from the Alarm In.

Currently, this system supports 2 Alarm Out functions and 1 built-in speaker (beep) output.

The following screen will appear if the **Enter** button is pressed by moving the cursor from the Alarm Out item.

1 <input checked="" type="checkbox"/>	2 <input type="checkbox"/>
Beep <input checked="" type="checkbox"/>	All <input type="checkbox"/>

OK Cancel

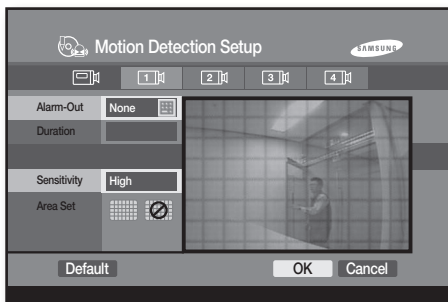
• Duration


Sets the duration for Alarm Out. The alarm sound will be maintained with the value set.

CONTINUE: The alarm output sound will be maintained until it is cancelled by pressing the **ALARM** button manually on the front panel.

10~300 Seconds: You can set the duration for the alarm output.

Motion Detection Setup



Set the motion detection area, sensitivity and alarm for each camera video.
Press the **Enter**() button after moving the cursor on the camera to be set.

- **Alarm Out**

It sets the alarm output when a motion is detected.
Currently the system supports 2 Alarm Out functions and 1 built-in speaker output.

- **Duration**

Sets the duration for Alarm Out. The alarm sound is sustained for the preset period.

CONTINUE: The alarm output sound will be maintained until it is cancelled by pressing the **ALARM** button manually on the front panel.


10~300 Seconds: Sets the duration for alarm output.


- **Sensitivity**


It relates to configuration for motion detection and sensitivity.

The sensitivity can be set to Very High, High, Medium, Low or Very Low.

- **Area Set**

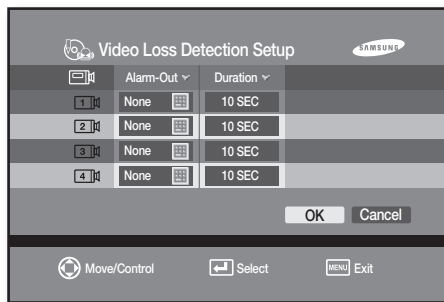
If you press the **Enter**() button after moving the cursor to the video display area on the right, the motion area can be set/cancelled.

() : Sets the whole part as the motion area.

() : Cancels the whole motion area.

If you press "**Default**", the motion setup is reset to the initial values.

Video Loss Detection Setup




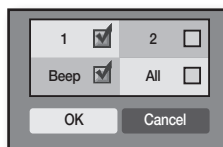
If a video loss occurs from each channel, it can be set to generate an alarm output sound.

- **Alarm Out**

Sets an alarm-out method when an event has occurred from the Alarm In.

Currently, this system supports 2 Alarm Out functions and 1 built-in speaker (beep) output.

The following screen appears when you press the **Enter**() button after moving the cursor to the Alarm Out item.



- **Duration**

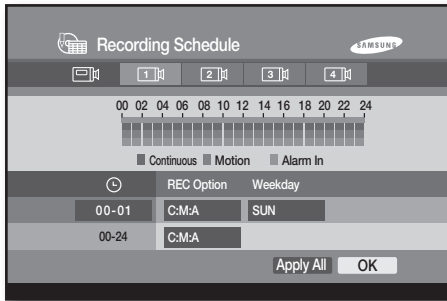
Sets the duration for Alarm Out. The alarm sound is sustained for the preset period.


CONTINUE: The alarm output sound is maintained until it is cancelled by pressing the **ALARM** button manually on the front panel.

10~300 Seconds: Sets the duration for alarm output.



RECORD SCHEDULE

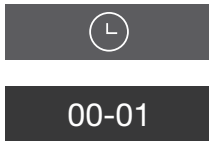
The details of the record schedule menu are as follows:




You can set the system to automatically record images by setting the desired time frames. Press the **Enter**() button after moving the cursor on the camera to be set.

• Time Selection

In order to select the recording time slot hourly, move the cursor to the part shown as in the figure below and press the **Enter**() button. And, select the recording time slot while using the **▲** or **▼** button. You can exit from the change mode by pressing the **Enter**() button again.




• REC Option

Sets the recording method. Please see the following table for the types of recording methods. You can apply the preset recording method for the selected time slot if the **▲** or **▼** button is used after pressing the **Enter**() button.

"00-24": The recording method can be identically set to a range between zero hour and 24 hours. If you press **"Apply All"**, the values for the current channel are copied to entire channels and all days.

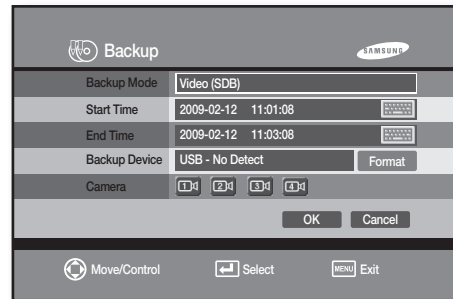
Recording Type	Recording Support	Setup Screen Symbol
C: Continuous M: Motion A: Alarm In	No Recording	NONE
	Continuous Recording	C
	Motion Recording	M
	Alarm In Recording	A
	Continuous & Motion Recording	C : M
	Continuous & Alarm In Recording	C : A
	Motion & Alarm In Recording	M : A
	Continuous & Motion & Alarm In Recording	C : M : A

• Weekday

Set for Divides at day of the week for a reservation scheduled recording. Press **Enter**() , choose the day what you want to use by **▲** , **▼** .

BACKUP



The details of the backup menu are as follows:



This is to back up the video data stored on the HDD to a backup device.

• Backup Mode

Selects which mode is to be used for backup. The backup mode supports three types in total such as SDB, SFX, and AVI.

Press the **Enter**() button and select the backup mode by using the **▲** or **▼** button. You can exit from the change mode by pressing the **Enter**() button again.

Samsung Database (SDB): This is a proprietary data type of Samsung. Once data is backed up in SDB, the backup data are automatically copied into the SDB Viewer as well as the SDB. Typically, the SDB is used to back up mass storage data.

SFX: This mode runs a backup job together with the auto-executable video player. If the backup file is executed, the player will be automatically launched to play the video. The SFX backup data is saved with an executable file extension (.EXE).


AVI: This mode saves in the video format that can be played from the Windows Media Player. Audio codec is able to backup.

• Start Time & End Time

Sets the date and time for backup.
(Minimum Backup time is 2 minutes.)

• Backup Device

Sets the storage device for backup. The backup device supports the USB storage device and CD/DVD, USB-CD/DVD.

Press the **Enter**() button and select the backup device(USB store systems) by using the **▲** or **▼** button.

Escape from the change mode by pressing the **Enter**() button again.

When USB store systems are connected normally in system, [Format] button is activated.

And then, the case which make USB store systems to Reset, presses the [Format] button.

MODEL	SIZE
SONY	512MB, 1GB, 2GB
TRANSCEND	128MB, 2GB, 4GB
SAMSUNG	1GB, 2GB
AXXEN	1GB
SANDISK	256MB
Dadam	640MB
LG XTICK	1GB
AXIAN	256MB

• Camera

Sets the camera channel for backup.

• Format

It Supports USB-format functions.



- The backup file can be played on PC, but can not be played from a DVR.
- In case of the AVI backup, you may need a DivX codec to play the saved file. You can obtain the DivX codec from the website www.divx.com.
- A warning message appears if no backup device exists.
- For a watermark, insert a mark that only the manufacturer knows into the video data lest a person should identify the mark with naked eyes. If the saved video data are forged or altered, "Tampered" will be displayed on the screen of the SDB Viewer or SFX Player. If not, "Approved" will be displayed.

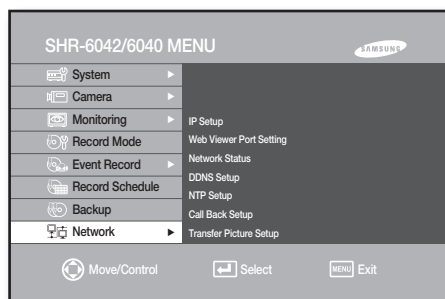


Caution

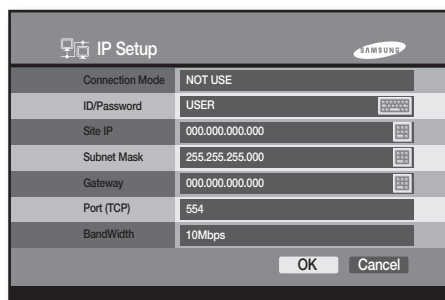
- Please do not remove the storage device during backup or do not turn off the system power. The system may run abnormally.
- The system speed may be slowed down during backup.
- When backing up the data to CD, the recorded data may be damaged according to the conditions of disk recording surface.

NETWORK

The details of the network menu are as follows:



IP Setup



• Connection Mode

Sets the network type for the main system. Press the **Enter** (↵) button and select the network by using the **▲** or **▼** button.

NOT USE: Select it when you do not use a network.

STATIC-IP: Select it when the main system is connected to the network that is using the fixed IP.

DHCP: Select it when the main system is connected to the network whose IP address is dynamically assigned by DHCP.

ADSL(PPPoE): Select it when the main system is connected to the ADSL network using PPPoE.

• ID/Password

You can manually enter the ID/PASSWORD when ADSL is selected.

When the main system is connected to the ADSL network, you need to enter the user ID and password provided by the ADSL carrier. The user ID and password may be entered by using the virtual keyboard.



- **Site IP**

Sets the IP address for the main system to be connected to the network. If the connection mode is set to STATIC-IP, the user needs to enter the IP address directly.

- **Subnet Mask**

Sets the subnet mask address for the main system.

- **Gateway**

Sets the gateway address for the main system.

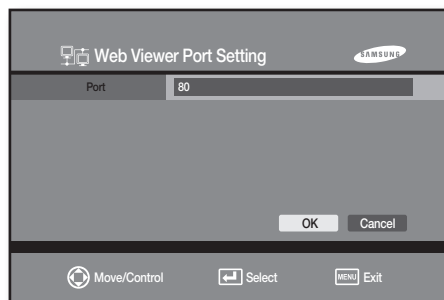
- **Port(TCP)**

The port number is selectable from 554 to 2048.

- **Bandwidth**

Set the maximum speed of transferring video data over a network.

Web Viewer Port Settings

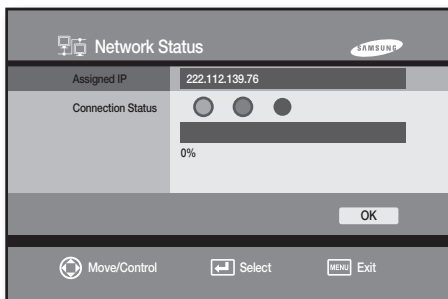


Set the number of a port where Web Viewer will be used on the Web browser. The port number is set to 80 by default.

- **Port**

Set the number of a port where Web Viewer will be used on the Web browser. You can set the port number to 80 to 60080.

Network Status



- **Assigned IP**

Displays the IP address assigned to the current system.

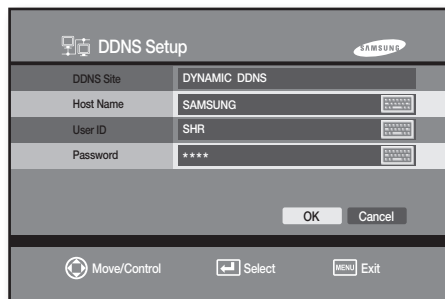
- **Connection Status**

Displays in colors whether the system is currently connected to the network in a normal state or in an abnormal state.

If **"OK"** is displayed, it means that the IP can be connected. If **"Failed"** is displayed, it means that the IP cannot be connected.

Color	Ping Response Speed
Green	Less than 500 ms
Yellow	500~2000 ms
Red	Greater than 2000 ms

DDNS Setup



DDNS Setup function allows you to use the dynamic IP address connected to the system as if it is a fixed IP address.

- **DDNS Site**

The DDNS site is selectable among SAMSUNG, DYNAMIC DDNS, NO IP and CHANGE IP. When SAMSUNG is selected, The IP will be registered to the DDNS being operated by Samsung Electronics. DYNAMIC DDNS, NO IP and CHANGE IP are the public DDNS websites that allow registering a dynamic IP and assigning a URL free of charge. Set the host name, user ID and password after joining in the corresponding website and registering the URL.

- **Host Name**

Sets the host name of the DDNS site.

- **User ID**

Sets the user ID entered when joining in the DDNS site.

- **Password**

Sets the password entered when joining in the DDNS site.

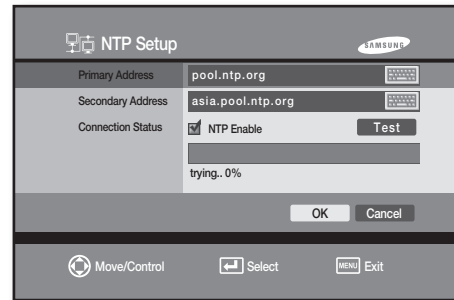


- Samsung DDNS uses the Mac Address of the product. If Mac Address is 00:0C:83:00:00:32, Samsung's Domain Name will be assigned as **"h0000032.websamsung.net"**.



- If you have set a public DDNS (dyndns.com, no-ip.com or changeip.com), it may take 30 to 60 seconds until the IP address of the host name (URL) can be updated in the DNS.
- When using the network by connecting an IP router to the main system, the network port has to be designated from the setup menu of the IP router. The main system uses 1494ports (554-2048) for the TCP communication. When using it by assigning IP addresses dynamically to the main system while using the DHCP function supported by the IP router, the port number for the IP address dynamically assigned from the setup menu of the IP router needs to be designated. When using an IP router, it is recommended to designate the IP address and port number to be assigned to the main system from the setup menu of the IP router, to set a fixed IP address for the connection mode of the main system, and to enter the IP address designated to the IP router. Please refer to the IP router manual or contact the manufacturer for the IP router setup method.

NTP Setup



NTP Setup is used to configure the system for network-based synchronization.

• Primary Address & Secondary Address

Sets the NTP server address.

• Connection Status

You can check the connection status with the NTP server by pressing “Test” after entering the NTP server address.

If the message “**Success**” is displayed, the NTP server is in the state possible to communicate; if the message “**Failed**” is displayed, it is not possible to communicate.

• NTP Enable

When using the NTP function, please check the “**NTP Enable**” box.

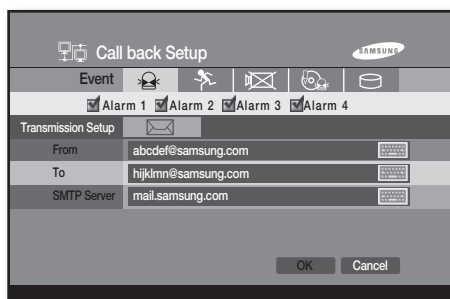


- When the DVR system time prior to operating the NTP setup function is set faster than the NTP standard time (in other words, the DVR system time is set to a past time through the NTP setup), the recording function will not operate for the protection of previously recorded data. The recording function will operate normally from the point that the newly set time exceeds the original time value.
- When the NTP function is in use, a time change can not be made from the time setup menu and it only allows setting the standard time zone.
- The synchronization between NTP server and DVR system will be performed every hour.

NTP(Network Time Protocol) Server List

ISO	Area	NTP Server Address
Worldwide		pool.ntp.org
Asia		Asia.pool.ntp.org
Europe		Europe.pool.ntp.org
North America		North-america.pool.ntp.org
Oceania		Oceania.pool.ntp.org
South America		South-america.pool.ntp.org
AT	Austria	at.pool.ntp.org
AU	Australia	au.pool.ntp.org
BE	Belgium	be.pool.ntp.org
CA	Canada	ca.pool.ntp.org
CH	Switzerland	ch.pool.ntp.org
CL	Chile	cl.pool.ntp.org
DE	Germany	de.pool.ntp.org
DK	Denmark	dk.pool.ntp.org
ES	Spain	es.pool.ntp.org
FI	Finland	fi.pool.ntp.org
FR	France	fr.pool.ntp.org
GT	Guatemala	gt.pool.ntp.org
IE	Ireland	ie.pool.ntp.org
IT	Italy	it.pool.ntp.org
JP	Japan	jp.pool.ntp.org
MX	Mexico	mx.pool.ntp.org
MY	Malaysia	my.pool.ntp.org
NL	Netherlands	nl.pool.ntp.org
NO	Norway	no.pool.ntp.org
NZ	New Zealand	nz.pool.ntp.org
PH	Philippines	ph.pool.ntp.org
PL	Poland	pl.pool.ntp.org
PT	Portugal	pt.pool.ntp.org
RU	Russia	ru.pool.ntp.org
SE	Sweden	se.pool.ntp.org
US	USA	us.pool.ntp.org

Call back Setup



When each event (Alarm In, Motion, Video Loss, and Record) is perceived, each callback messages as well as the camera images that inter-work with alarm input

will be delivered to the e-mail address. Information on the sender, recipient, and SMTP server should be set to send a callback message to the e-mail address.

• Event

- : Select the alarm in channel where the callback function will be enabled.
- : Select the Motion channel where the callback function will be enabled.
- : Select the Camera channel where the callback function will be enabled. When video loss occurs from selected Channel, transmits Call back messages.
- : Select the Camera channel where the callback function will be enabled. The recording is started and ended from selected Channel, transmits Call back messages.
- : Select the HDD error/HDD Full item where the callback function will be enabled. In case The error will occur from HDD or HDD is full, transmits Call back messages.

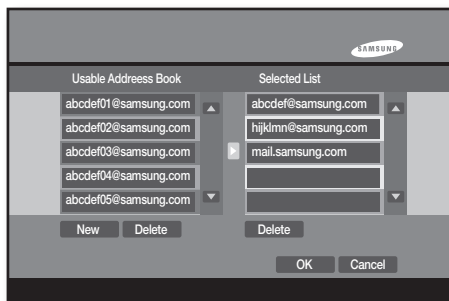
• From(Sender)

Enter the account of the e-mail sender.
Press the **Enter**() button. Then, the text box will appear as shown in the figure below:



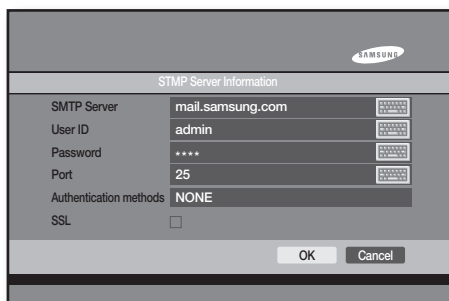
• To(Recipient)

Enter the account of the user who will receive e-mails.
Press the **Enter**() button.
Then, the window below will appear.
Press "New". Once a virtual keyboard window appears, enter the recipient address.
Select an account from the Usable Address Book and press the button to register the recipient address into the selection list.



• SMTP Server:

Enter the information on SMTP Server. Press the **Enter** (↵) button. Then, the window below will appear:



• SMTP Server:

Enter the address of the server to which you will send e-mails.

• User ID:

Enter the user account of the mail server (SMTP).

• Password:

Enter the password for the user account in the mail server.

• Port:

Enter the port number for the mail server (SMTP). You can set the port number to 1 to 65535.

• Authentication Method:

Perform security authentication to enable logging into the mail server (SMTP). This option allows you to encrypt and authenticate IDs and passwords while sending or receiving e-mails. This option is mainly used to be registered into the services of Internet Service Providers (ISPs)/Internet content providers.

• SSL:

Select if the specified SMTP server uses SSL as its security protocol. For example, the SMTP server of Google's Gmail utilizes SSL to encrypt outgoing mail.



Authentication Method

• CRAM-MD5/CRAM-SHA1 Authentication:

Enables decipher when IDs or passwords are sent or received.

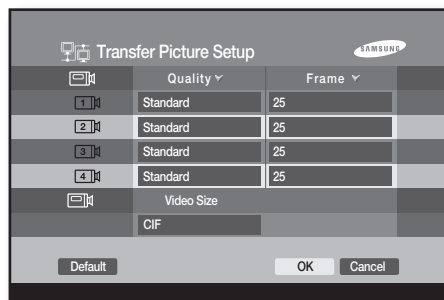
• PLAIN Authentication:

Uses the text format to send or receive IDs or passwords.

• LOGIN Authentication:

Encrypts IDs and passwords under Base64 in order to prevent packet sniffing.

Transfer Picture Setup



Set the video information to be sent over the network.

• Quality

Sets the image quality to be transmitted.

Sets to any of Very High, High, Standard, Low.

• Frame

Sets the number of frames for recording. The number of frames indicates the number of screens recorded per second.

• Video Size

Sets the screen size for recording.

Video Source	Full D1	Half D1	CIF
NTSC	704 X 480	704 X 240	352 X 240
PAL	704 X 576	704 X 288	352 X 288

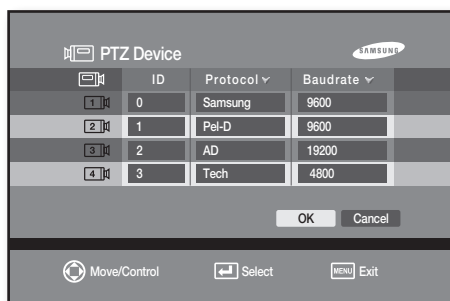
If you press "**Default**", the property values return the initial values.

Possible set frame is NTSC: MAX.30fps, PAL: MAX.25fps in FULL D1 standards.

PTZ camera control

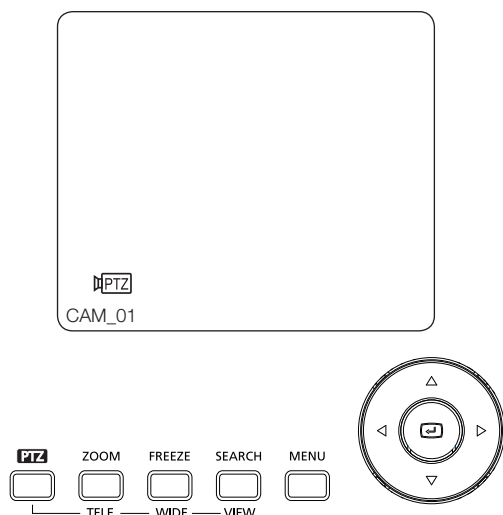
PTZ CAMERA CONTROL MODE

In order to enter into the PTZ device control mode, the PTZ device setup values must be properly set.



If PTZ has been set from the menu, the PTZ icon (PTZ) is displayed on the corresponding channel of the screen.

A blue bar appears on the monitor screen if you press the **Enter** (Enter) button in the live mode screen. Move to the channel with the PTZ icon by moving this bar using the direction buttons and enter the PTZ device control mode by pressing the **PTZ** button. If you enter the PTZ control mode, the PTZ icon of the live screen will be changed from the white color to the yellow color. Only the basic operations of Pan, Tilt and Zoom can be performed in the PTZ device control mode of the split screen.



From the single screen, you can control the basic Pan, Tilt or Zoom operations, preset, camera menu and other functions. From the menu, first select the channel set with PTZ by pressing the **CH1** to **CH4** buttons on the front panel and press the **PTZ** button. If you enter the single screen PTZ device control mode, the PTZ icon of the screen is changed from the white color to the yellow color.

Press the **PTZ** button in the live mode to cancel the PTZ device control mode.

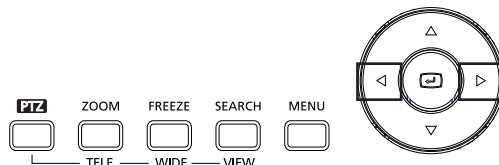
If it is cancelled, the PTZ icon (PTZ) is changed from the yellow color to the white color.

- If no PTZ control is used by the DVR for as long as 5 minutes, the PTZ mode is automatically cancelled.

BASIC OPERATION OF PAN, TILT & ZOOM

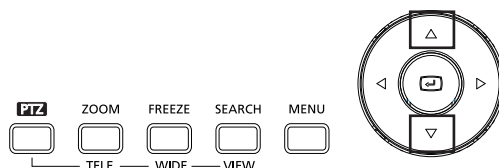
• PAN

The PTZ camera can be controlled in the horizontal direction by using the **direction** (◀ or ▶) buttons on the front panel within the PTZ device control mode.



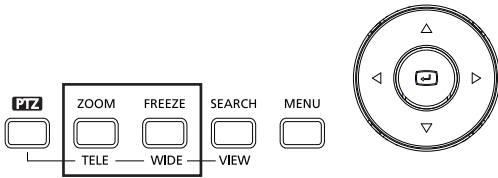
• TILT

The PTZ camera can be controlled in the vertical direction by using the **direction** (▲ or ▼) buttons on the front panel in the PTZ device control mode.




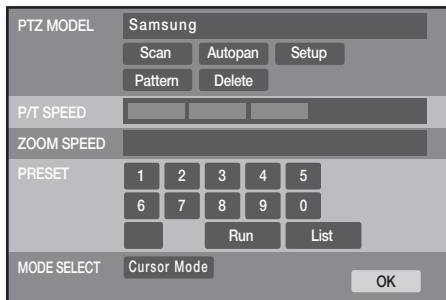
• ZOOM

The PTZ camera can perform the enlargement/reduction function by using the **TELE/WIDE** button on the front panel in the PTZ device control mode.



PTZ DEVICE MENU SETUP

In order to enter the PTZ device menu setup mode, first select the channel set with PTZ by pressing the **CH1** to **CH4** buttons on the front panel and press the **PTZ** button. If you enter the single screen PTZ device control mode, the PTZ icon of the screen is changed from the white color to the yellow color. At this time, the PTZ menu setup window appears if the Search() button is pressed.



• PTZ MODEL

Displays the currently set PTZ model.

The function menus shown by the PTZ model are displayed. Each menu allows you to set various PTZ functions.

Scan: This traverses a designated location sequentially from the PRESET 1 to 20.



Autopan: If you press **"Autopan"** after setting the positions of two points 'Start' and 'End' from the internal menu of the PTZ camera, this function makes it to come and go repeatedly between two points. The Autopan function can be cancelled by pressing **"Autopan"** again.

Setup: Select it either to designate an arbitrary location to the PRESET number or to enter the internal menu screen of the PTZ camera.



Pattern: This function remembers manual operations such as PAN, TILT, ZOOM, and FOCUS and plays back as it remembers.

Delete: This function allows you to delete information on the location of PTZ, which is set to PRESET No. 1 to PRESET No. 20 once you press **"Delete"** while pressing **"Setup"**.

• P/T SPEED

You can set the Pan/Tilt speed of the PTZ camera in step-by-step fashion. After moving the cursor to the **P/T SPEED**, press the **Enter**() button and set the speed using the **▲** or **▼** button. Escape from the change mode by pressing the **Enter**() button again.

• ZOOM SPEED

You can set the zoom speed of the PTZ camera in step-by-step fashion. After moving the cursor to the **ZOOM SPEED**, press the **Enter**() button and set the speed using the **▲** or **▼** button. Escape from the change mode by pressing the **Enter**() button again.

• MODE SELECT

It is used when designating a certain position of the PTZ camera to the PRESET ID or controlling the position of the PTZ camera. By toggling the button, it is switched to **"Cursor Mode"** → **"P/T Mode"**, **"P/T Mode"** → **"Cursor Mode"**.


Cursor Mode: This shows the state that can move between menus.

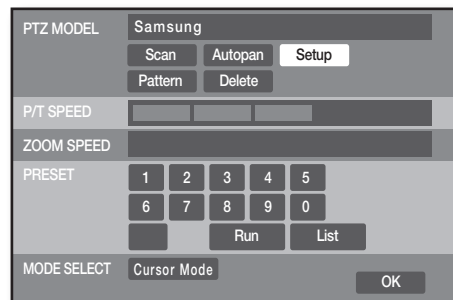
P/T Mode: This shows the state that can control the Pan, Tilt and Zoom function of the PTZ camera.

PRESET SETUP

This is the function that saves a desired position of the PTZ camera.

It allows storing up to 20 PTZ camera positions.

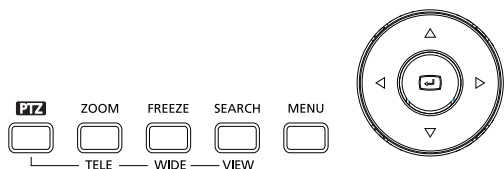
If the Search() button is pressed from the single screen PTZ device control mode, the PTZ menu setup window appears.



Press the **Enter**() button to set the PRESET after moving the cursor on the **"Setup"**.

If the mode is changed to the **"P/T Mode"** by pressing the **"Cursor Mode"**, it will be switched into the PTZ position manipulation mode.

Move the PTZ camera to a desired position by using the **direction** (**▲▼◀▶**) buttons and **TELE/WIDE** button on the front panel.



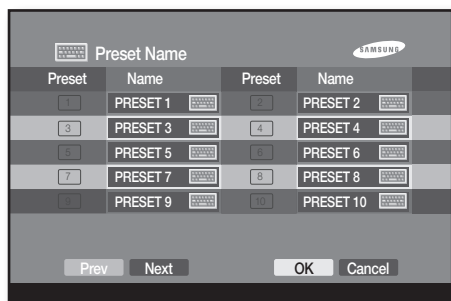
▲	Top	▼	Bottom
◀	Left	▶	Right
TELE	Zoom in		Zoom out

You can escape from the PTZ position manipulation mode if you switch to the “**Cursor Mode**” by pressing “**P/T Mode**”.

Enter a PRESET number to remember the current location of PTZ into the PRESET number. Then, press the **Run** button. (PRESET numbers can be set to 1 to 20.)

You can escape from the PRESET setup mode by pressing the “**Setup**” again.

PRESET NAME SETTINGS



You can set the name of each PRESET.

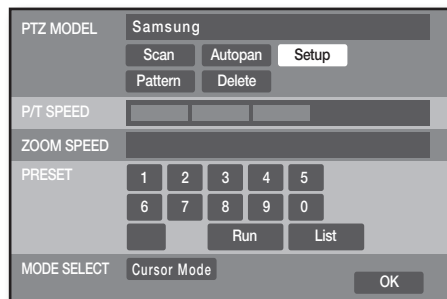
Press the **NAME** button. Then, a virtual keyboard will appear. Move the cursor to select letters. You can enter up to 10 letters. Press “**Shift**” to change lowercase and numbers to uppercase and special keys respectively.



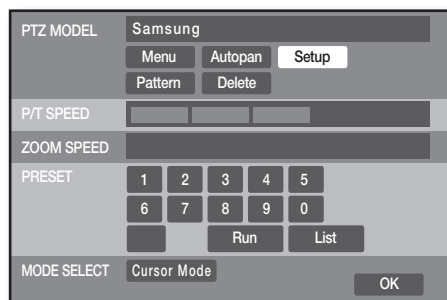
Press “**Prev**” to display from PRESET 1 to PRESET 10 and press “**Next**” to display from PRESET 11 to PRESET 20.

CAMERA MENU SETUP

If you press the **SEARCH** button in the single screen PTZ device control mode, the PTZ menu setup window appears.



If you press “**Setup**”, “**Scan**” will be changed to “**Menu**”.



If you press “**Menu**”, Menu screen provided by the menu of PTZ camera is displayed. Through this menu, you can set various functions of the PTZ camera.



You can move to the built-in PTZ menu or set the value by using the **direction** (▲▼◀▶) buttons on the front panel.

Press the **MENU** button on the front panel to exit from the built-in camera menu.

recording

REC(NORMAL RECORDING)

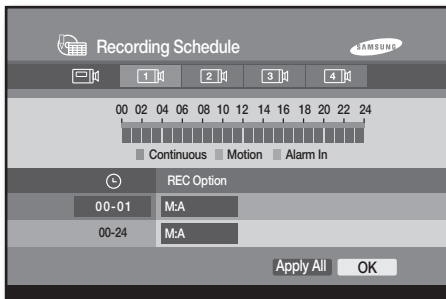
All video image from the channels never recorded will be recorded by pressing the REC button. At this time, the REC LED lights and the record icon appears on the screen. The HDD LED on the front panel blinks while data are saved on the HDD.



- If the job (such as time change, file deletion, HDD format, or HDD connect/release) needing to stop recording is executed, the current recording job is halted.

RECORD SCHEDULE

The scheduled recording job will be automatically executed while the **"Recording Schedule"** function is selected from the recording schedule menu. If the recording schedule function is not set, recording will not be done during the time. The recording icon appears during the scheduled recording time. The HDD LED on the front panel blinks while data are saved on the HDD.



When an event occurs during the time that an event recording is set, the automatic recording function is performed. In this case, the event recording setup of the corresponding channel will be saved within the event recording mode setup sub-item (Quality, Frame, Pre Event, Post Event, Video Size) of the event recording menu item.



- The event recording function is performed only if the event recording function is set from the recording schedule setup menu. If the job (such as time change, file deletion, HDD format, or HDD connect/release) needing to stop recording is executed, the current recording job is halted.

EVENT RECORDING

• Alarm Detection

The Alarm In (sensor) operation mode has to be set to **N.O** (Normally Open) or **N.C** (Normally Close) from the alarm section of the event recording menu.

• Motion Detection

The motion detection region of the event recording menu has to be set.

• Event Record

It sets the form saved when an event has occurred.

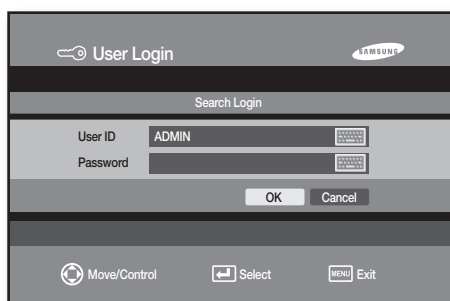


- If the job (such as time change, file deletion, HDD format, or HDD connect/release) needing to stop recording is executed, the current recording job is halted.

search and play

USER LOGIN

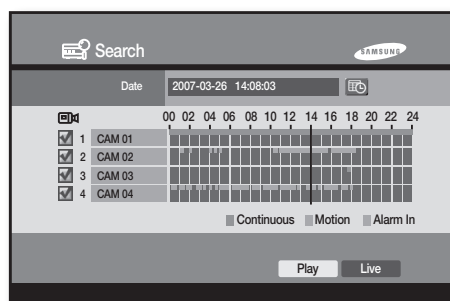
Press the **SEARCH** button in order to enter the search screen.



In order to perform a search, the user with a relevant search right has to be logged on. You may log on as a relevant user by entering the user ID and password. (When this product is shipped, the password of the 'ADMIN' user account will be set to '4321'.)


SEARCH SCREEN

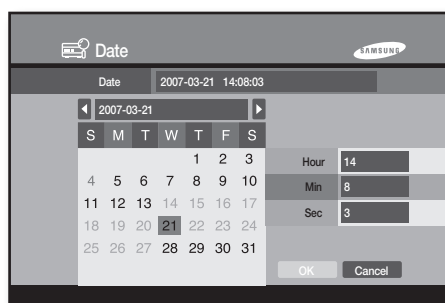
The details of the search screen are as follows:



SEARCH DATE & TIME SELECTION



You can move to the recorded date by using the calendar.

If you press the  icon to select the desired date for search, the calendar window appears.




: Moves to the previous month.

: Moves to the following month.

When setting the search time, move the cursor to the Hour, Min and Sec items and press the **Enter**() button. Then, change the hour/minute/second by using the **▲** or **▼** button. Escape from the change mode by pressing the **Enter**() button again.

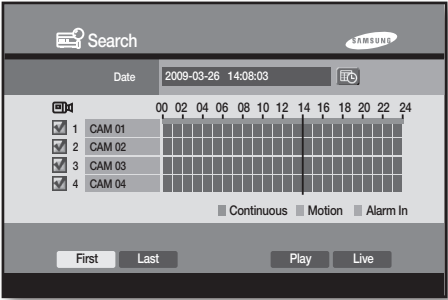
The date recorded with a video data is shown in orange.

If you press the **Enter**() button after moving the cursor on the date to be searched, the search date is selected.


If you press "OK" after selecting a search date, the screen returns the previous screen.

Date Color	Description
Orange	Date that a video data was recorded
Blue	Date that a video data was not recorded
Green	Date that a search date was selected
Red	Date for the holidays

SEARCH CHANNEL SELECTION & RECORDING GRAPH



• Channel Selection

You can select the channel to be searched. After pressing the **CH1** to **CH4** buttons on the front panel or moving the cursor to the channel to be searched, the channel can be selected by pressing the **Enter**() button.

• Recording Graph

The recording amount of each channel is shown on the Timeline graph.
The search time can be set by moving the timeline bar to the left or right.

(/(<<)): Moves the timeline bar to the left.

((>>)/): Moves the timeline bar to the right.


Graph Color	Description
Yellow	Continuous Recording
Blue	Motion Recording
Orange	Alarm In Recording

PLAYBACK

If you press “**Play**” after selecting the channel and date to be searched, the video is played.




During Live mode instant playback can be started by pressing the **Play/Pause** () button. Once pressed the DVR will instantly playback recorded data 2 minutes prior to the button activation.

In order to stop playing and change to LIVE mode, press the **Stop** button()



And if the data position reaches to the end, the play stops and it becomes the pause state.

In order to return to the search screen while playing a video, press the **SEARCH** button.



- Because the system does not play a video in the menu state even after the **Play/Pause** button () is pressed, you need to exit from the menu first to play the video.

• Fast Play

If you press the left or right button (/(<<)/(>>)/) while in playing, you can see the screen in the reverse or forward direction with the 2-times speed, 4-times speed, 8-times speed, 16-times speed or 32-times speed.

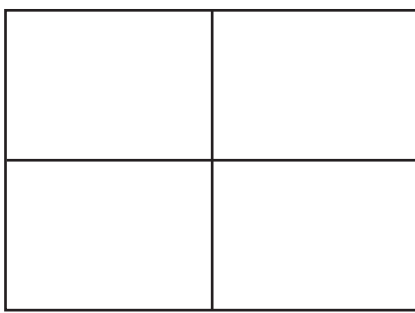
• **Viewing One Scene at a Time**

If you press the left or right button(◀/◀◀/▶▶/▶) while the screen is paused, you can see still images forwardly or reversely. During reverse search, the interval between cuts may vary depending on the recording specification.

• **Audio On/Off**

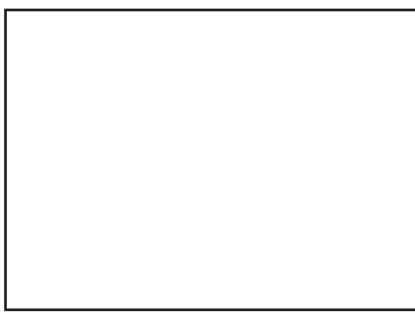
You can turn On/Off the play channel audio by pressing the **AUDIO** button from the play screen.

• **Play Screen Mode**



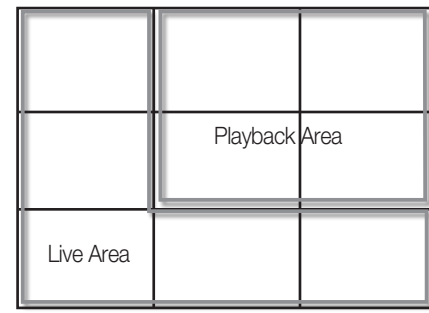
4 Split Screen:

If you select two or more channels from the search screen, the 4 split screen appears.



Single Screen:

Only single screen can be selected when a single channel is chosen in the search menu.
If multiple channels are selected in the search menu than the use select between channels in single screen mode using to **CH1** ~ **CH4** buttons.



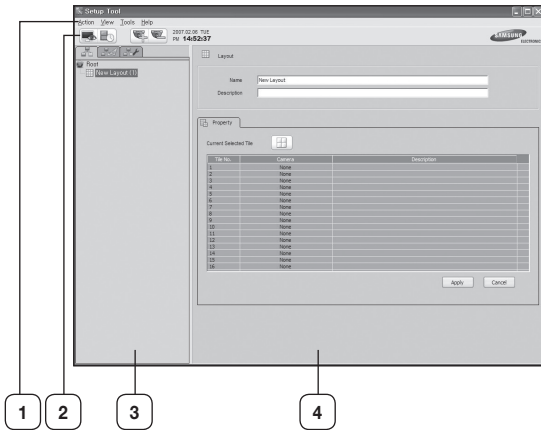
9 Split Screen:

If the **MODE** button is pressed from the 4 split screen, the 9 split screen appears. The 4 channels being played are displayed on the upper right end of the screen and the live 4 channels are displayed on the lower left end of the screen.

appendix

Net I


Net I Setup tool



The Setup Tool screen consists of four separate areas:

1. **MENU** area:
You can see and perform the Setup-related functions.
2. **TOOLBAR** area:
You can directly perform any of Live Viewer and Search Viewer applications by clicking the icon. Click the icon with the PLUS sign to add a new device. To delete an existing device, click the icon with the MINUS sign.
3. **VIEW TREE** area:
You can see and configure the view trees such as Logical View Tree, Physical View Tree, and System View Tree.
4. **CONFIGURATION** area:
You can define the name, description, and the related settings of each entity, and see the settings.

To manually register a device

1. Select **Action > Create > Device > Add Device**, or right-click in the VIEW TREE area and select **Create > Device**. You can also use the **Add Device** button () in the TOOLBAR area and select **Device(Manual)**.
2. Set the values for vendor name, model name, and address type.
3. According to the model name or address type value, the displayed items are different.

- When the address type is Static IP

The dialog box shows the following fields: Vendor Name (Samsung), Model Name (SHR-604X), Address Type (Static IP), IP Address (211 . 209 . 192 . 12), Device Port (205), User ID (danny), and Password (****). The Register and Cancel buttons are at the bottom.

- When the address type is URL

The dialog box shows the following fields: Vendor Name (Samsung), Model Name (SHR-604X), Address Type (URL), URL (http://teatcamers.com/inform), Device Port (205), User ID (danny), and Password (*****). The Register and Cancel buttons are at the bottom.

- When the address type is Samsung DDNS

The dialog box shows the following fields: Vendor Name (Samsung), Model Name (SHR-604X), Address Type (Samsung DDNS), Device Port (205), MAC Address (12 12 12 12 12 12), User ID (danny), and Password (*****). The Register and Cancel buttons are at the bottom.

- When the address type is S1 DDNS

Device(Manual) Register

Vendor Name: Samsung

Model Name: SHR-604X

Address Type: S1 DDNS

Device Port: 205

MAC Address: 12 12 12 12 12 12

User ID: danny

Password: *****

Register Cancel

4. Input the values for each address type.
5. Enter the user ID and password and click **Register**.



- If **Cancel** is selected, the values return to the original settings.
- When the MAC address needs to be input depending on the firmware version, the MAC address is required to be input.

When the configuration completes, the registered device is displayed on the physical view tree. If any registration problem occurs, it is displayed on the reply message box. The possible errors are like the following:

Reply message	Comments
Unused Device	It is a unknown device.
Parameter Error	The registered parameters are wrong.
Disconnected	The device is disconnected.
Not Connected	The device is not listed on the network.
Network Error	The network is not in good status.
Wrong Address	The device has a wrong address.
Wrong User ID	The input user ID is wrong.
Wrong Password	The input password is wrong.
Log-In Fail	The log-on operation has failed.
Access Conflicted	Access conflict has happened.
Exceed the Fixed Number of People	Accessed users are out of limit.
Authority Error	User authorization has failed.
Can't Receive Device's Response	The system cannot receive responses from the device.
MAC Address Conflicted	Duplicate MAC addresses exist.
IP Address Conflicted	Duplicate IPs exist.
Unknown Error	A unknown error has occurred.

It is set on the physical view tree. You can see and modify the registered device.

Device

Name: 10.240.55.83:60001-1CH
Description:

Information


Vendor Name: Samsung
Model Name: SNT-1010
Address Type: Static IP
IP Address: 10.240.55.83
Device Port: 60001
HTTP Port: 80

User ID: root
Password: *****

Modify Apply Cancel

To modify the registered device

1. Select **View > Physical**, or click the second icon tab on the VIEW TREE area.
2. Select the device you want to modify and click **Modify**.
3. Modify the values for items and click **Modify**. (Vendor Name, Model Name and MAC Address are not available to modify).

 • If Cancel is selected, the values return to the previous settings.

Modify Device

Vendor Name: Samsung
Model Name: SNT-1010
Address Type: Static IP
IP Address: 10 . 240 . 55 . 83
HTTP Port: 80
Device Port: 60001

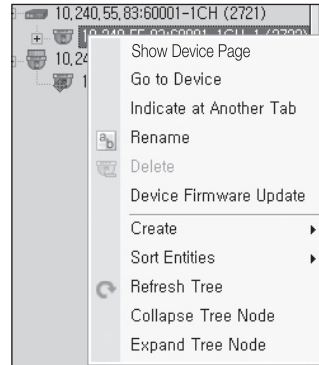
User ID: root
Password: *****

Modify Cancel

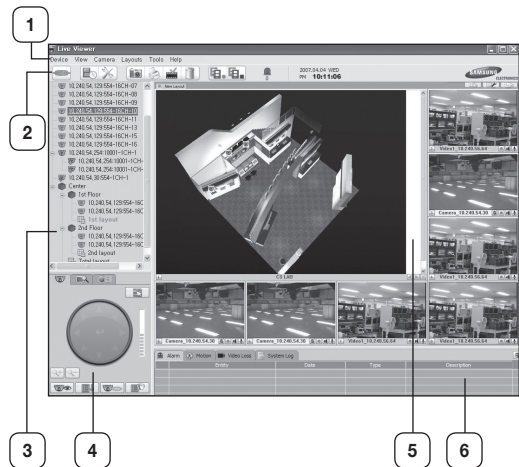
Viewing the device-related settings

The device-related settings can be accessed by selecting **Show Device Page** after right-clicking on a device in the VIEW TREE area.

The device-related settings that have been configured in each device site are displayed here. For furthermore information, refer to each device manual.



Net I Live Viewer



The Live Viewer screen consists of six separate areas:

1. **MENU** area:
You can see and perform the functions in various menus.

2. **TOOLBAR** area:

You can directly execute several functions or applications.

When listed from left to right, the tools are Connect/Disconnect, Search Viewer, Setup Tool, Save Snapshot, Print Snapshot, Add a Bookmark, Remove the Selected Tile, Start Recording on All Tiles, Stop Recording on All Tiles, and Alarm Indicator.

3. **CAMERA TREE** area:

You can see the logical view tree, which displays the assigned cameras, layouts, and sites.

4. **CAMERA CONTROLS** area:

Using the controls, you can handle the videos displayed in the VIEWING area.

5. **VIEWING** area:

Through the tiles in a layout, you can monitor images from multiple cameras. A layout can permit up to 16 cameras simultaneously in this area. With a dualscreen configuration, you can view maximum 32 cameras. The screen aspect ratio of each tile follows the ratio of the original source.

6. **MESSAGE** area:

Events received from remote devices and system log messages are displayed in this areas.

But you can also enable or disable the display of four areas (CAMERA TREE, CAMERA CONTROLS, MESSAGE, TOOLBAR areas) using the options on View menu.

For instance, once the **Camera Tree Window** is unchecked, the CAMERA TREE area will disappear.

Using the **Full Screen** function, you can expand the application window size to full screen.



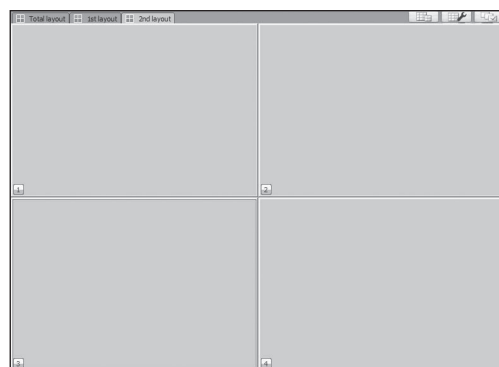
- Audio may become unstable depending on the bandwidth usage when transferring audio data over a network in Net I.

Using layouts



The CAMERA TREE area displays the logical view tree, which contains the cameras, layouts, and sites that have been created through the Setup Tool application.

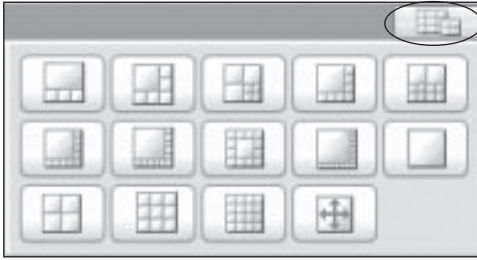
Each displayed entity shows a number next to the entity name. The number is used to separate tiles in the VIEWING area. When a tile is active, it is displayed in orange.



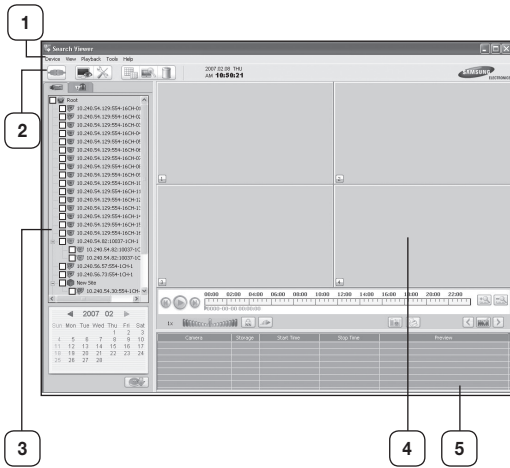
To place multiple layouts in the VIEWING area, doubleclick each layout in the CAMERA TREE area. Or you can drag the wanted layout in the CAMERA TREE area and drop it in the VIEWING area.

The created layouts have no predefined patterns.

You have to assign patterns to each layout according to the assigned number of cameras and maps. The default layout pattern is given a 2 x 2 pattern.



Net I Search Viewer



The Search Viewer screen consists of five separate areas:

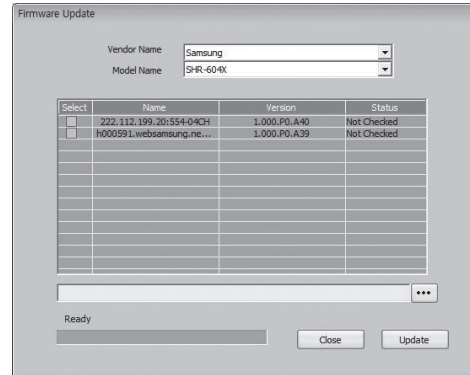
- MENU** area:
You can see and perform the functions in various menus.
- TOOLBAR** area:
You can directly execute several functions or tools. When listed from left to right, the tools are Connect, Live Viewer, Setup Tool, Pattern, Digital Zoom, and Remove Selected.
- QUERY GENERATOR** area:
You can set the condition for query. It includes four different tabs such as Camera Search and Event Search.
- VIEWING** area:
You can monitor the videos recorded by multiple cameras. A layout can permit up to 16 cameras simultaneously in this area.
- QUERY RESULT LIST** and **SYSTEM LOG** area:
Queried results and system log are displayed here.



- For furthermore information, refer to Net I manual.

Device Firmware Update

To update device firmware



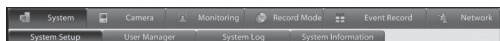
- Select **Action > Device Firmware Update**, or right-click in the VIEW TREE area and select **Device Firmware Update**.
- Device is displayed when you select the Vendor Name and the Model Name you want to update.
- Check the select box for updating the device.
- Click **FindFile** () button and select Firmware file.
- To update the device, Click **Update**.



- When more than two devices is selected for updating, the update is executed in sequence. After the update is done, Status displays OK.
- While updating, the other functions are not available.

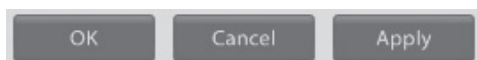
Before use

Setup menu buttons



- By pressing buttons, you can select between each menu.
- The main categories : System, Camera, Search mode, Record mode, Event Recording mode, Network


Storage/Cancel of Changed Information



- **OK:** Close the windows and saves, any changed information.
- **Cancel:** Close the windows and not saving changed information.
- **Apply:** Dose not close the windows and saves the changed information.

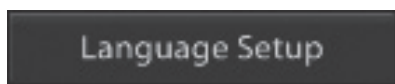
Virtual Keyboard



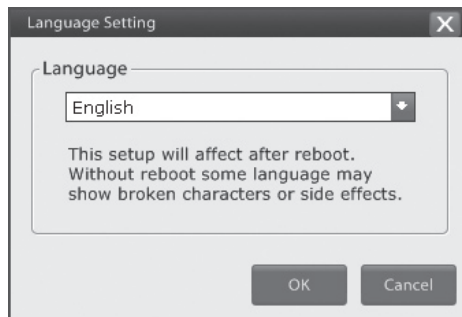
- Click  to operate Virtual Keyboard.
- Click buttons by mouse to input in information.



Language Setting



- Click **Language Setup** to change language applied to the system.
- Select language which you want to change, and then Click **OK**.

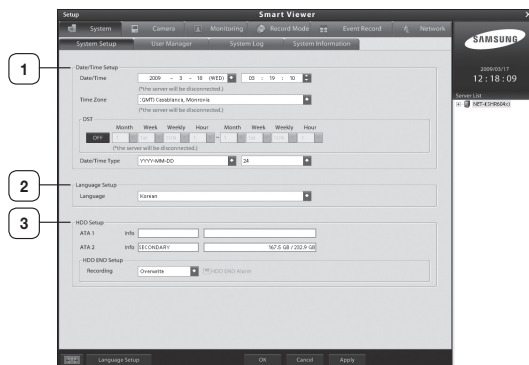


SYSTEM

System Setup

Displays the current Date/Time, Language, and HDD condition of DVR system.

Select Date/time and Language set up and save.



1. Data/Time Setup:

You can set up Date/Time, Standard Time line, and DST. When you change Date/Time, Standard Time line, and DST, disconnect with Server.

- When you use NTP Server, you cannot change Date and Time .

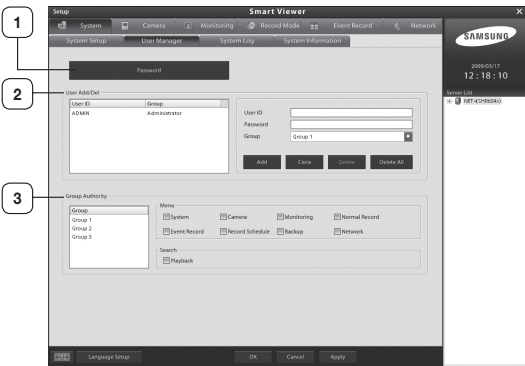
2. Language Setup:

You can select Language.

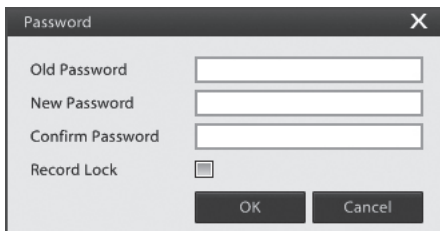
3. HDD Setup :

Displays PRIMARY/SECONDARY of HDD Enable/Disable and Usage size/Full size information. When HDD is FULL, you can set up Stop/Overwrite Enable/Disable and HDD finish Alarm

User Administration



1. Edit Password:



This option is used to edit password and Recording Lock settings for the ADMIN account. Enter the current password and a new password. Confirm the new password and then click OK to apply.

2. Add/Remove User:

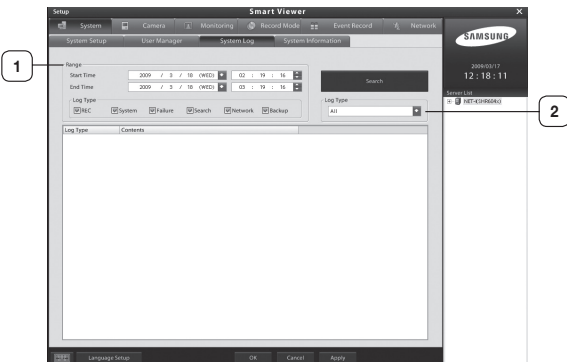
This option is used to create and delete user accounts. The window on the left displays a list of current user accounts.

3. Edit User Group Authority:

This option is used to designate individual group authority.

SYSTEM LOG

Click this tab to view the system log. Set the timeframe and log event types you wish to search. Click Search to populate a list of matching returns.



1. Parameters:

Select the timeframe and the types of log events you wish to search.

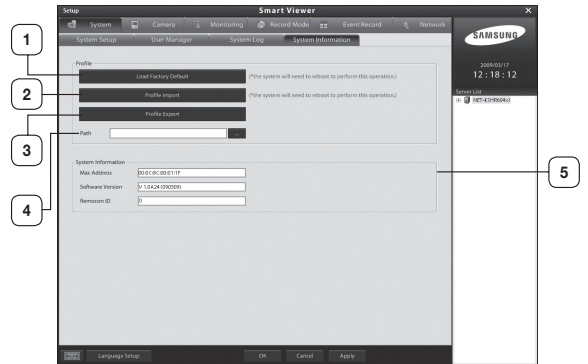
2. Log Type:

Use the log type filter to narrow down on the types of log events you wish to search.

SYSTEM INFO

The System Info tab contains Reset, Import, and Export functions.

The tab also displays your system's information.



1. Reset:

Clicking Reset changes system settings to their default values and automatically reboots the system.

2. Import:

Clicking this button imports and loads configuration settings from the designated path and automatically reboots the system.

3. Export:

Clicking this button exports the current configuration settings to the designated path.

4. Path:

Enter in this field the path you wish to use to import/export configuration settings.

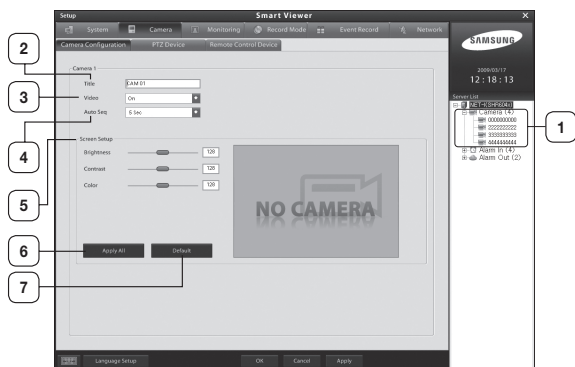
5. System Info:

This section displays your system's Max address, software version, and remote control ID.

CAMERA

Camera Settings

The Camera tab contains camera enable/disable and video source brightness, contrast, and color options. This tab also contains camera security options. Select a camera you wish to configure from the server list located on the right side of the screen.



1. Camera:

Select the camera channel you wish to configure.

2. Name:

Enter the name of the selected camera's zone.

3. Video:

Enable/disable the selected camera.

4. Screen Conversion:

Set the screen conversion time.

5. Video Settings:

Adjust the source signal's brightness, contrast, and color levels.

6. Apply to All:

Use this feature to apply the selected camera's video settings to all or a designated group of cameras.

7. Reset:

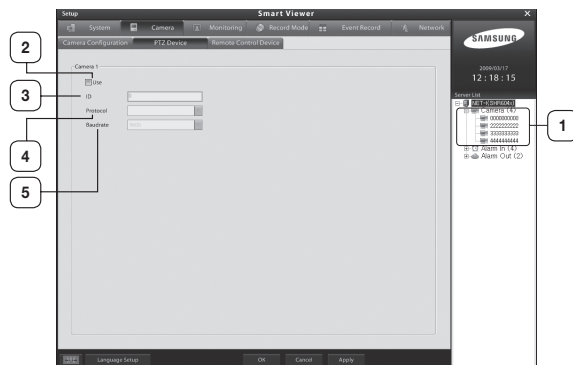
Resets brightness, contrast, and color levels to their default settings.

8. Screen:

Displays the selected camera's video feed. It's possible to view video settings adjustments in real-time.
- Adjusting video settings does not correct improperly recorded video clips; therefore, it's important that both the camera and the monitor are properly calibrated before recording video.

PTZ Device Settings

Your DVR system supports remote control of external devices such as a PTZ or a Speed Dome. Before using this feature, however, you will first need to connect the external device to the system via the RS485 port and configure the connected external device.



1. Camera:

Displays configured camera channels.

2. Enable/Disable:

Enables/disables the configured camera's PTZ feature.

3. ID:

Designate an ID for the configured PTZ.

4. Protocol:

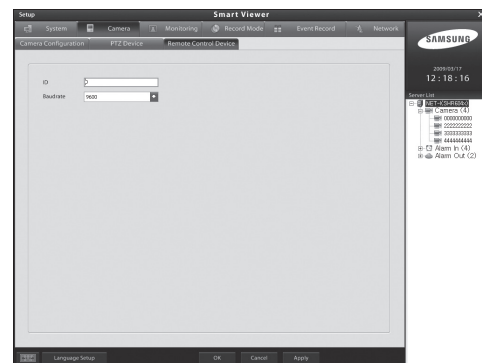
Designate the communication protocol you wish to use with the configured PTZ or Speed Dome.

5. Baud Rate:

Designate the baud rate for the configured PTZ.

REMOTE CONTROL DEVICE

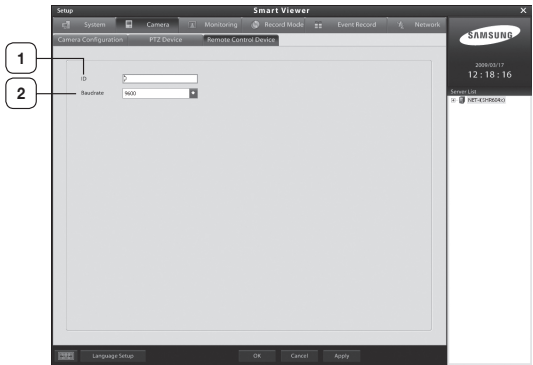
This tab is used to configure the ID and baud rate for remote control devices.



MONITORING MODE

Live Mode

This tab is used to configure the necessary information for Live Mode.



1. Event Monitoring Duration:

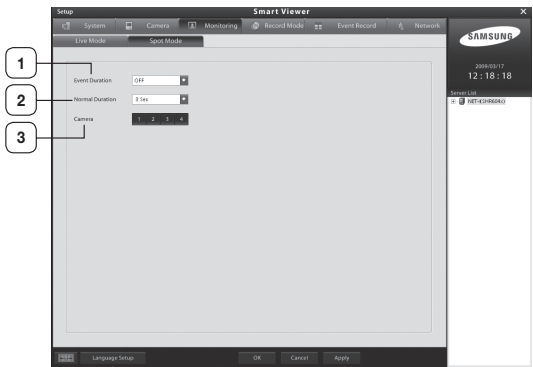
Completely disable event monitoring or configure the event monitoring duration.

2. Text Display:

Enable/disable various text display options, including date, time, camera name, and sensor mode.

Spot Mode

This tab is used to configure the necessary information for Spot Mode.



1. Event Duration:

Used to disable event duration or to designate the duration.

2. Normal Duration:

Used to configure the normal video duration.

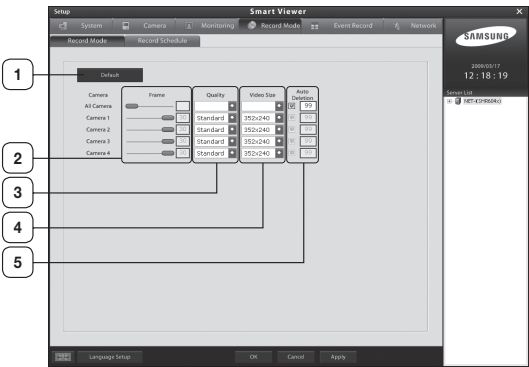
3. Camera:

This tab is used to configure the spot mode camera.

RECORDING MODE

Recording Settings

This tab is used to configure each camera's recording settings (frame rate, picture quality, resolution, auto delete).



1. Reset:

Resets all settings to their default values.

2. Frame Rate:

Used to configure normal recording frame rate.

3. Picture Quality:

Used to configure the level of recording quality.

4. Resolution:

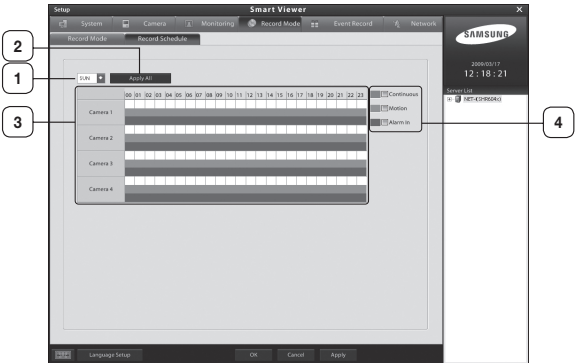
Used to configure the recording resolution.

5. Auto Delete:

Used to enable/disable auto delete and to designate the number of days to auto delete.

Scheduled Recording

Scheduled recording allows the user to schedule auto recording.



1. Day Selection:

Select from Mon, Tue, Wed, Thu, Fri, Sat, and Sun.

2. Apply to All:

Applies the current auto recording schedule to all days of the week.

3. Recording Schedule Display:

Allows the user to schedule various recording modes for individual cameras. Select a desired recording mode and drag using the mouse to designate the timeframe.

4. Recording Mode:

Displays various recording modes that are available. Select a desired recording mode and drag over to the schedule line using the mouse to assign.

Continuous: Refers to continuous recording regardless of an event occurrence.

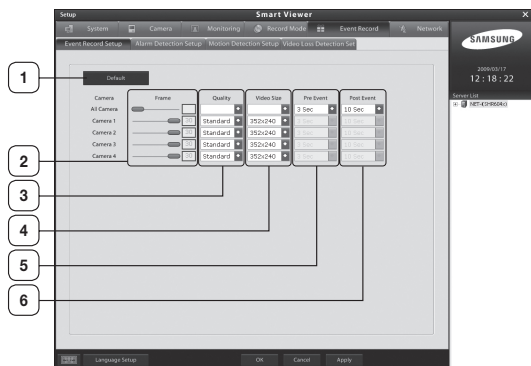
Motion Detection: Refers to recording only when motion is detected.

Sensor: Refers to recording only when a sensor (alarm-in) event is detected.

EVENT RECORDING MODE

Event Recording Settings

This tab is used to configure each camera's event recording settings (frame rate, picture quality, resolution, pre- and post-event recording durations).



1. Reset:

Resets all settings to their default values.

2. Frame Rate:

Used to configure event recording frame rate.

3. Picture Quality:

Used to configure the level of recording quality.

4. Resolution:

Used to configure the recording resolution.

5. Pre-Event:

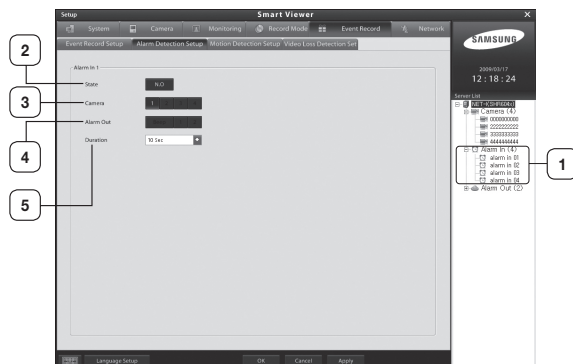
Used to configure the duration of recording leading up to an event.

6. Post-Event:

Used to configure the duration of recording following an event.

Alarm Detection Settings

Alarm detection bases on sensor signals to trigger recording and/or sound the alarm when an event is detected.



1. Sensor Channel:

Select the sensor (alarm-in) you wish to configure.

2. Sensor Mode:

Set sensor mode to N.O or N.C.

3. Camera:

Select the camera(s) you wish to assign to the selected sensor. The selected camera(s) will start recording when a sensor event occurs.

4. Alarm:

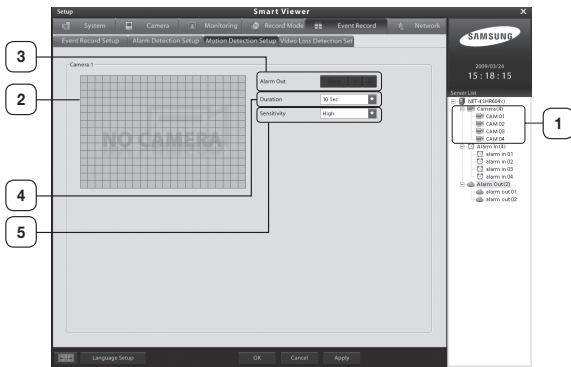
Used to configure the alarm to sound when a sensor event is detected.

5. Duration:

Used to configure the event-triggered alarm duration.

Motion Detection Settings

Motion detection is a feature capable of starting recording, sounding an alarm, and transmitting an emergency message upon detection of motion by an activated camera.



1. Camera:

Select the camera channel you wish to configure.

2. Motion Detection Zone:

Used to define a camera's motion detection zone. The motion detection zone is indicated by green blocks.

Designating Motion Detection Zone:

Left-click on the mouse and drag to designate the motion detection zone.

Deactivating Motion Detection Zone:

Right-click on the mouse and drag to deactivate the motion detection zone.

3. Alarm:

Used to select an alarm to link to motion detection-activated cameras. When motion is detected by any one of the activated cameras, alarm will sound by the designated alarm(s).

4. Duration:

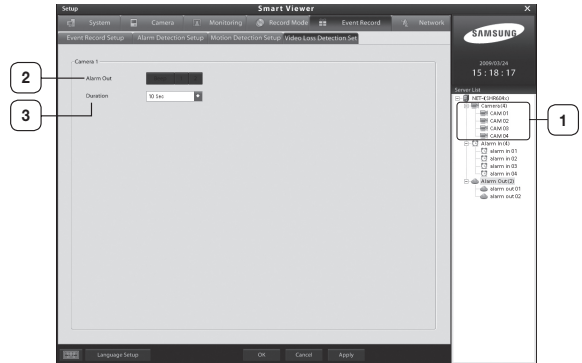
Used to configure the event-triggered alarm duration.

5. Sensitivity:

Used to designate the level of motion detection sensitivity.

Video Loss Detection Settings

This feature sounds an alarm when video loss is detected from a camera.



1. Camera:

Select the camera channel you wish to configure.

2. Alarm:

Select the alarm(s) you wish to trigger when video loss is detected. When video loss is detected by any one of the activated cameras, alarm will sound by the designated alarm(s).

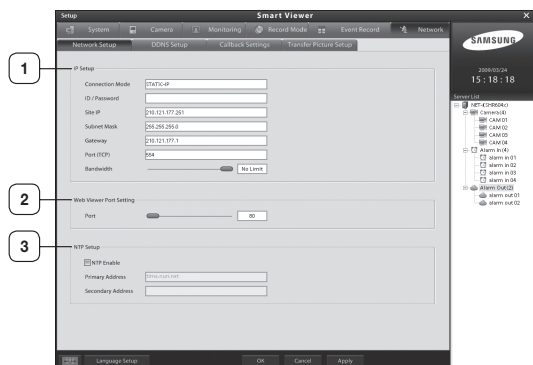
3. Duration:

Used to configure the event-triggered alarm duration.

NETWORK

Network Settings

Network settings tab contains various network settings your DVR requires for its remote control, video streaming, and communication functions.



1. IP Configuration:

Displays various network configuration information. IP configuration also includes a bandwidth adjustment option.

2. Web Viewer Port Setting:

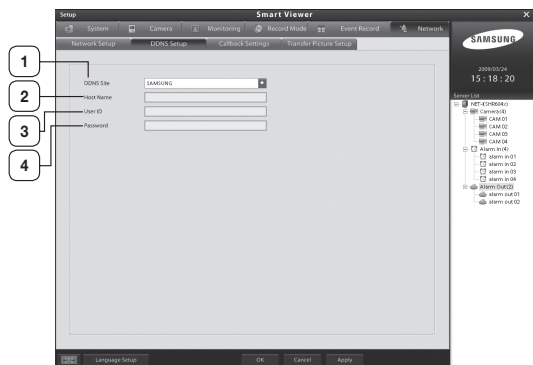
Used to designate the web viewer port. Supported ports range from 80 to 60080, in increments of 2000 (80, 2080, 4080...60080).

3. NTP Configuration:

Used to enable/disable automatic time and date retrieval from an NTP server. Enabling NTP means you will not be able to manually configure the date and time.

DDNS Settings

This tab contains DDNS server settings.



1. DDNS Configuration:

Select from Samsung, Dynamic DDNS, No IP, and Change IP.
- Selecting Samsung will make host name, user ID, and password non-configurable. For these settings, default values will be used.

2. Host Name:

Enter the DDNS server name.

3. User ID:

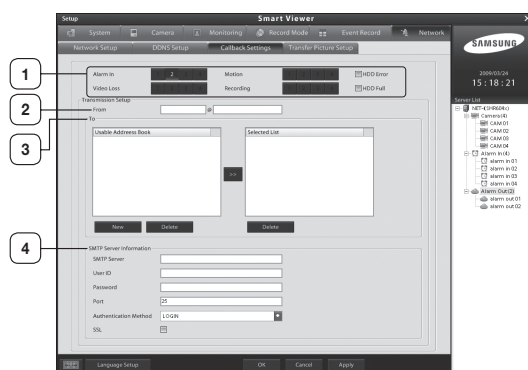
Enter the DDNS server account ID.

4. Password:

Enter the DDNS server account password.

Call Back Settings

The call back feature can be configured to transmit an email to a designated email address when an event or a system error occurs.



1. Transmission Type:

Used to designate types of call back events and errors.

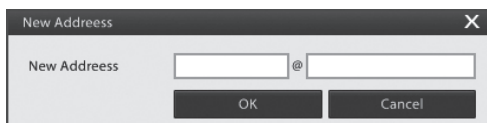
2. Sender:

Enter the sender's email address.

3. Recipients:

Designate receiving email addresses. Call back emails are sent to email addresses listed in the window on the right side.

Adding an Email Address: Clicking the New button prompts the window shown below. Enter the new email address and click OK to add to the recipient list.



Removing an Email Address: Select address(es) you wish to delete and click Remove.

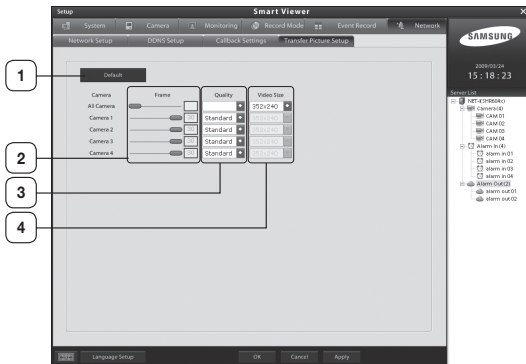
Add to Recipient List: From the address book, select address(es) you wish to add and click >>.

4. SMTP Server Info:

Enter the SMTP server name, account ID/password, and port number, select authentication method, and enable/disable SSL.

Image Transmission Settings

This tab contains video transmission settings (frame rate, resolution, picture quality).



1. Reset:

Resets all settings to their default values.

2. Frame Rate:

Used to adjust the frame rate of individual cameras.

3. Picture Quality:

Used to configure the picture quality of individual cameras.

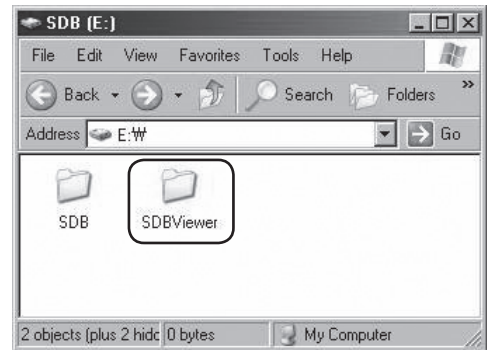
4. Resolution:

Used to configure the resolution of transmitted video. Resolution cannot be configured on individual camera basis.

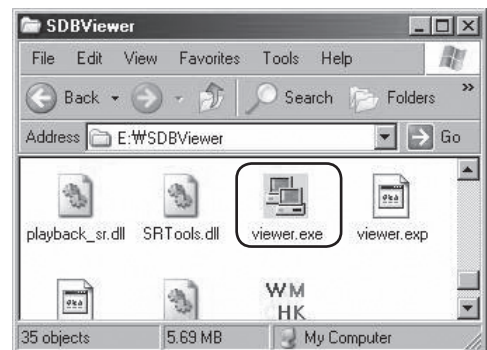
SDB VIEWER

Running SDB Viewer

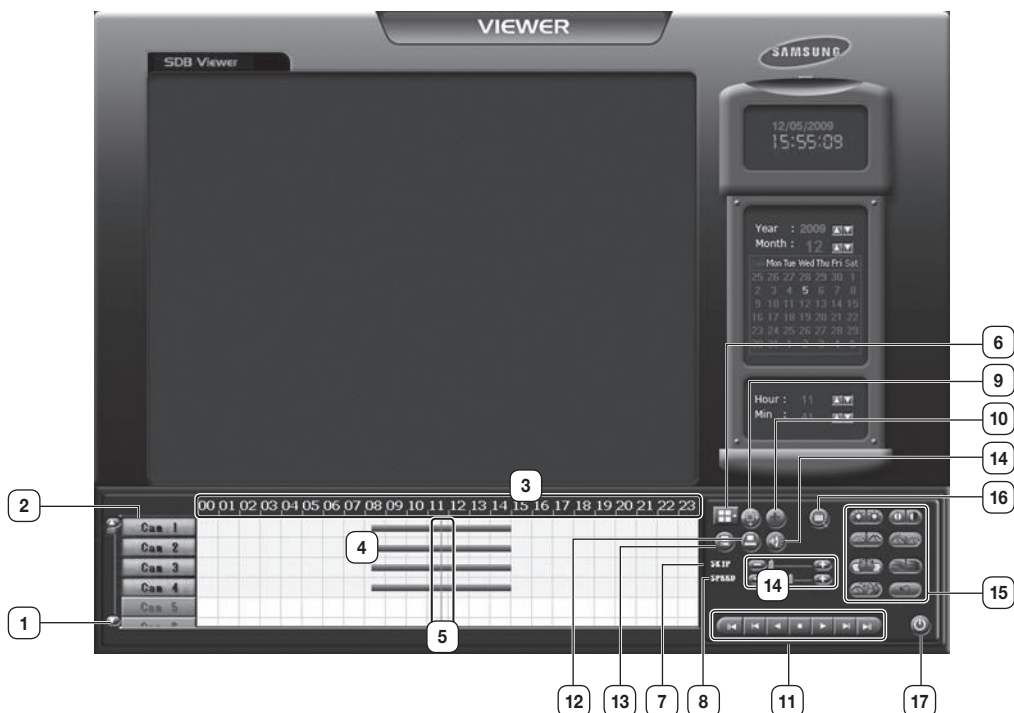
Save the backup media in the format of SDB on the PC where the Viewer application will run. Double-click the 'SDBViewer' folder.



Double-click 'viewer.exe' to run the Viewer application.



Main Window of SDB Viewer



1 Scrolling Camera Buttons:

This function allows you to scroll up or down the button for the camera to be searched.

2 Camera:

Select the number of the camera to be searched. Once you click the number, the colors of the button and camera number will change.

3 Zooming out Time Display and Graphs

Displays the time of the data storage. Click the time to check the graphs in detail by zooming out the hour interval in three steps.


4 Display of Storage Amount:

This function enables recording types and storage amount by hour to be displayed in graphs. If data are saved in continuous recording, graphs will be displayed in maroon. If data are saved in motion recording, graphs will be displayed in blue. If data are saved in sensor recording, graphs will be displayed in orange. If data are saved in a pre-alarm, graphs will be displayed in green. If not, any graph will not be displayed.

5 Search Bar:

This function enables the time zone of the data being searched to be displayed. Move the search bar to the left or right to search the saved data in the desired time zone.

6 Split Window Setup:

If you click , the Split button will be displayed. The split mode of the search window automatically changes and the split window is played back depending on the number of selected cameras.

7 SKIP:

The searched images are displayed on the monitor as many as the setting. The setting value is not the number of images shown on the window but an internal differential value of the SDB Viewer program.

8 SPEED

This is a time delayed to display a searched image on the monitor.

9 **Zoom (🔍):**

This function enables saved images to be zoomed out or in. It supports zooming out images in five steps.

Digital Zoom:

Click the Digital Zoom button sequentially to switch to [Zoom out/Zoom in/Transfer].

10 **Zoom Out(➔):**

Right-click a part of the image to zoom out the image step by step centering on the part. This function supports zooming out images in 13 steps.

Zoom in(➔):

Right-click a part of the zoomed-out image to zoom in the image step by step centering on the part.

Move(👉):

Right-click and drag a part of the zoomed-out image to view another part of the zoomed-out image.

11 **Playing back Search Window:**

Set the camera number and time and date to be searched before playing back the search window.

Adjust search speed by using the values of SKIP and DELAY to play back the search window efficiently.

- ⏮ : Moves to the first data on the selected date.
- ⏪ : Plays back each window in the reverse direction.
- ⏩ : Plays back in the reverse direction
- ⏹ : Stops
- ⏭ : Plays back in the forward direction.
- ⏮ : Plays back each window in the forward direction.
- ⏭ : Moves to the last data on the selected date.

12 **Backup(💾):**

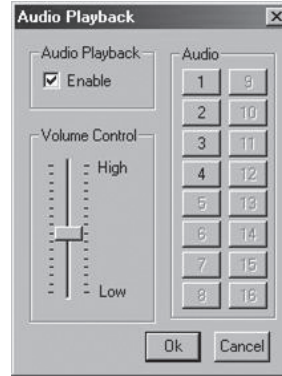
Select and zoom out the desired image while searching saved data from the search window and click 💾. Then, the 'Backup' window will appear.

13 **Print(🖨):**

Click 🖨 button to print out the searched image. Printing cannot be performed until one window is zoomed out during search.

14 **Voice Playback Setting:**

Zoom out and select an image of the camera where audio is saved in search mode to play back voice as well as images. (Voice is not played back on the multi-channel search mode window.)



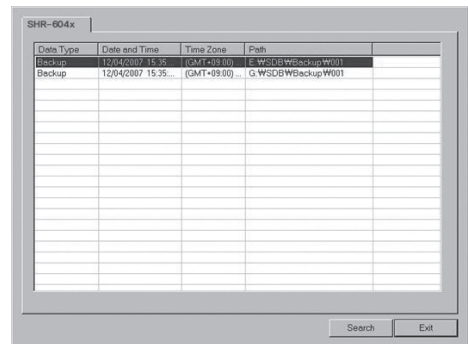
Click 🔊 button in search mode. Then, the "Audio Playback" window will appear as shown in the figure below. Unselect the 'Enable' checkbox ☐ from the 'Audio Playback' option to disable audio playback. Select the 'Enable' checkbox ☒ to enable audio playback. Drag the volume slider upward to turn up the audio, or drag the volume slider downward to turn down the audio.

15 **Improving the Image Quality of the Search Window:**

You can improve the quality of a selected image during search.

16 **Search Sheet:**

Click the 📄 button to search the backup data. Then, the window will appear as shown in the figure below: Select the name of the backup model. Then, select the backup data you want to search from the list and click the 'Search' button.



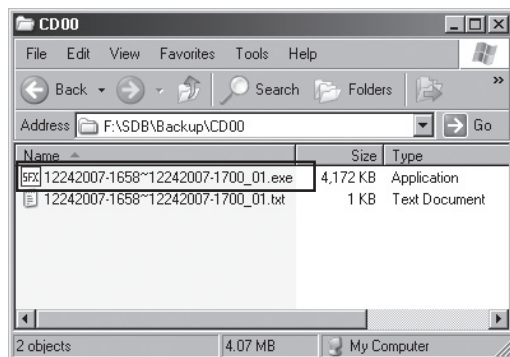
17 **Exit**

This button allows you to exit the dedicated viewer program.

SFX PLAYER

SFX Player Execution

This feature moves SFX backup files to the designated SFX storage folder after the system is connected to your PC. The SFX format files are named with the '.exe' extension as shown below.



Double-click an execution file (.exe file) and the video player plays back the backup data.

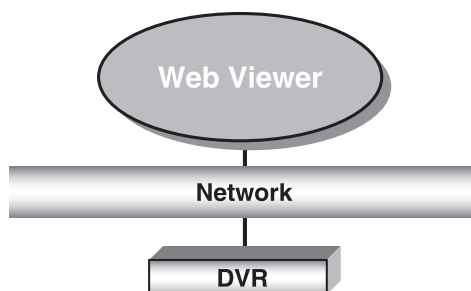


- If you use the SFX Player, a backup data file and a video player are saved in the same execution file. When the execution files are used, you don't need additional video player for playback.

WEB VIEWER

INTRODUCING Web Viewer

WHAT IS Web Viewer?



Web Viewer allows remote access to your DVRs. You have access to live video, archived video, PTZ control (if configured), etc.

PRODUCT FEATURES

- Remote access from a standard browser
- Supports PTZ camera controls
- Supports 1, 4, 8, 16 camera viewing formats (maximum of 16 cameras in the list).
- Gets JPEG format images to print and save to "Print or Save JPEG format images".
- Record video in AVI format—compatible with popular media players. (needed the Divx codec)


SYSTEM REQUIREMENTS

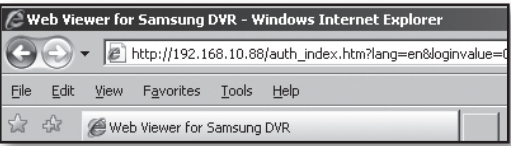
The following lists the minimum suggested hardware and operating system requirements needed to run the Web Viewer.

OS	Windows XP Professional Windows 2000 Windows Vista Home Basic / Premium
Web Browser	Internet Explorer 6.0.2900.2180 or higher
CPU	Intel Pentium 4 with 2 GHz processor
MEMORY	512 MB
Monitor	High Color 16-bit 1024 x 768
HDD	50 MB(Installation space required) * Additional HDD space required for recording. Recorded file size will vary depending on recording quality settings.


CONNECTING WEB VIEWER

1. Open your web browser and type the IP address or URL of DVR into the URL address box.

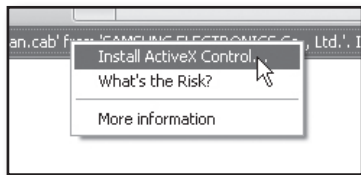
-  The basic URL of the DVR is as following in case of MAC address :
- If the MAC address is 00-0c-8c-ab-cd-ef, domain will be shown as "habcdef.websamsung.net". The "abcdef" of the domain indicates last 6 digits of the MAC address and the "h" is a code for identifying the DVR(SHR-6042/6040).



2. For Administrator, type "**ADMIN**", and then type the password that DVR is set up to. Non admin users have to add the User ID and the Password at "System → User Manager" menu.

-  It allows simultaneous access to DVR by up to 4 users, including Admin privilege user and user privilege users.
- The factory default password for Administrator privileges is "4321."
 - You can change the password and permissions for Administrator and User privileges in "System → User Manager" menu.

3. Click **"Install ActiveX Control..."**



4. Click **"Install"**.



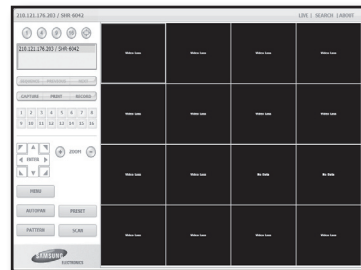
5. Click **"Install"**.



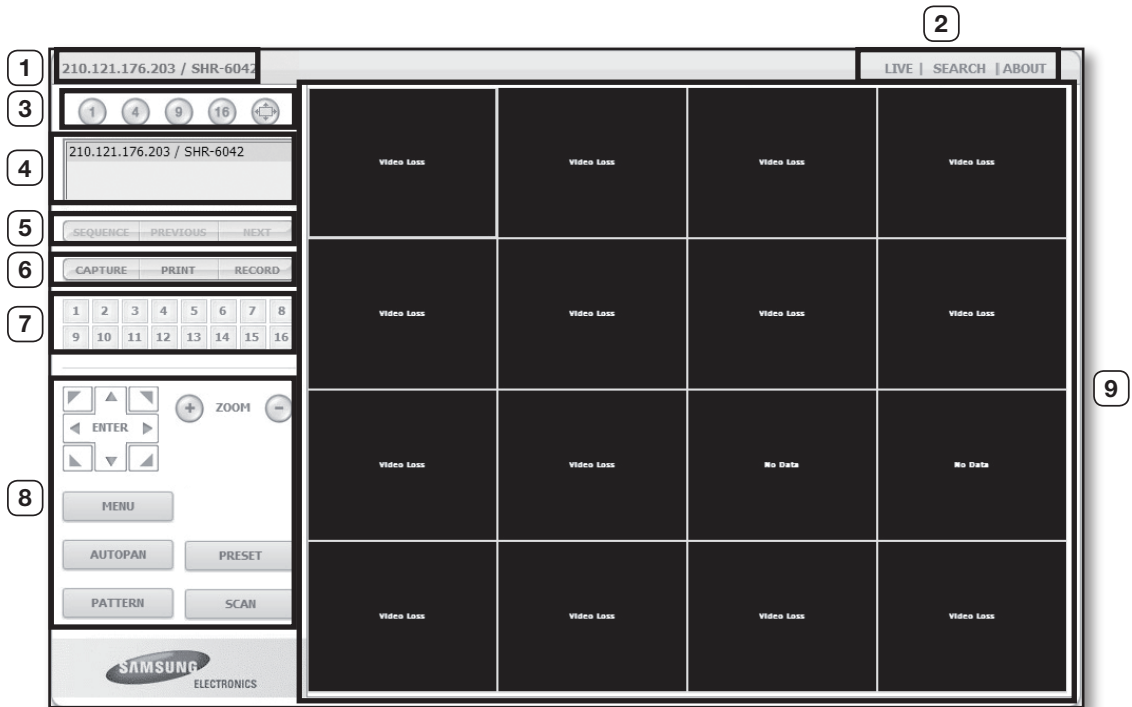
6. You may have **"Windows Security Alert"** that attempts to block this with the Windows Firewall. In that case, click **"Unblock"** to start Web Viewer.



7. Installation is complete. Now you can see the main screen of Live Viewer.



USING Live Viewer



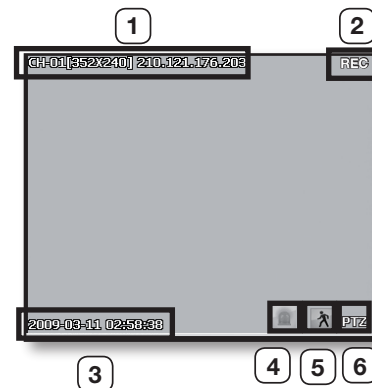
The Live Viewer screen consists of following :

- ① This displays the IP address and the model name of the connected DVR.
- ② These menus consist of **LIVE**, **SEARCH**, **SETUP**, **ABOUT**.
- ③ These buttons are used for the screen split and full screen mode.
- ④ This displays the IP address and the status of the connecting DVR.
- ⑤ These buttons are used for sequence and changing the screen channel.
- ⑥ These buttons are used for capture, print, and save the image.
- ⑦ These buttons display the current channel.
- ⑧ These buttons are used for PTZ related functions.
- ⑨ This displays the screen for connected camera with DVR.



- The resolution is at 1024 x 768 pixels.
- The initial screen split mode is according to the channel numbers of the connected DVR. You can change the screen split mode by clicking buttons for splitting screen.
- Non-admin users do not have access to **SEARCH** and **SETUP** menu.
- If you use Net I and Web Viewer simultaneously in Windows Vista, Web Viewer will be shut down abnormally. Select "Run as administrator" when running Internet Explorer.

OSD INFORMATION DISPLAY



- ① The channel number, video size, and IP address of the connected DVR are displayed.
- ② If the video data of the current channel is being recorded on your PC, "REC" appears on the screen.
- ③ The current date and time of the DVR are displayed.
- ④ Alarm icon appears when alarm is issued. It disappears when pressed the **ALARM** button of the DVR.
- ⑤ Motion icon appears when motion is detected. It disappears when pressed the **ALARM** button of the DVR.

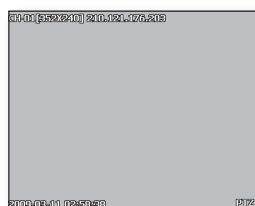
- ⑥ It displays whether the PTZ controls are active.



If you have set PTZ cameras for the DVR, "PTZ" is displayed on the screen. Select a PTZ camera channel and use the **PTZ** button for camera control.

SPLIT-SCREEN

You can change the split mode by clicking each number icon.



SINGLE MODE



QUAD MODE



- Click button.

The screen displays the selected camera connected to the DVR in "**SINGLE MODE**".

- Click button.

The screen displays the selected camera connected to the DVR in "**QUAD MODE**".

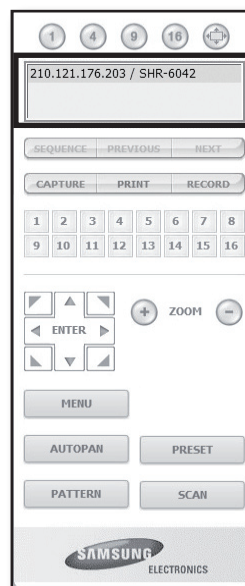
FULL SCREEN MODE

- Click button.

The screen displays the selected camera connected to the DVR in "**FULL SCREEN MODE**". To back to the previous mode, press the ESC key.

CONNECTED DVR

This displays the IP address and the status of the connecting DVR.



- Connection failure message

No Response : Appears when the DVR does not respond.

Wrong ID : Appears when the input ID is wrong.

Wrong Password : Appears when the input password is wrong.

Wrong Port Number : Appears when the port number is wrong.

Collision : Appears when Admin mode is already in use or simultaneous access to the same DVR from the PC.

User Full : Appears when the maximum number of users is exceeded.

- The numbers of simultaneous connection are 3 which includes the users for SmartViewer.

CHANGING THE LIVE SCREEN MODE

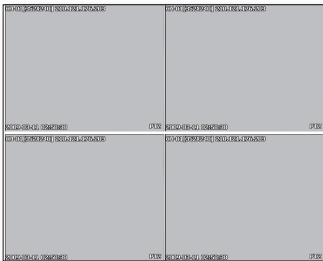


- **SEQUENCE:** When this button is clicked, screens are switched at a preset interval.
In **SINGLE MODE**, the channel numbers are sequentially switched from 1 to 4.
In **QUAD MODE**, the screen refreshes at the preset interval



- **PREVIOUS:** When this button is clicked, previous screen follows.
In **SINGLE MODE**, the channel numbers are switched in reverse order.
- **NEXT:** When this button is clicked, next screen follows.
In **SINGLE MODE**, the channel numbers are sequentially switched from 1 to 4.

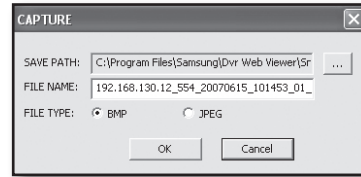
(CH1 to CH4)



4-channel DVR

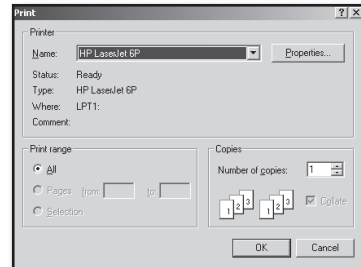
SAVING THE LIVE SCREEN ON THE PC

- **CAPTURE:** Captures the current picture on the screen and saves it as a jpg or bmp image file.

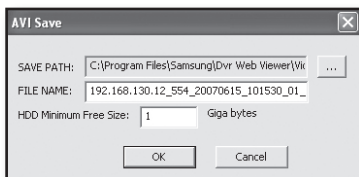


- The default saving path is "C:\Program Files\Samsung\Dvr Web Viewer\SnapShot\Live". To change the saving path, click "SAVE PATH" button(...) and then select the path you want. For Windows Vista, the saving path is "C:\users\user ID\AppData\LocalLow\Samsung\DVR Web Viewer\SnapShot\" and it cannot be modified.
- The file is automatically named as following:
"IP address_Port number_YYMMDD_camera number_index" Ex) 192.168.130.12_554_20070615_101530_01_00

- **PRINT:** Prints the live screen that is now being displayed. It also prints IP address, time, camera number, and current event state.



- **RECORD:** Saves the current image on the screen and saves it as a avi video file.

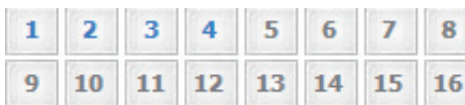


- To record it, it is required at least 1GB of available space.
- The default saving path is "C:\Program Files\Samsung\Dvr Web Viewer\VideoClip\Live". To change the saving path, click "SAVE PATH" button(...) and then select the path you want. For Windows Vista, the saving path is "C:\users\user ID\AppData\LocalLow\Samsung\DVR Web Viewer\VideoClip\" and it cannot be modified.
- The file is automatically named as following: "IP address_Port number_YYMMDD_camera number_index" Ex) 192.168.130.12_554_20070615_101530_01_00
- For **AVI Save**, you need the DivX codec for playing saved files. You can download the free version of the Divx codec at <http://sourceforge.net/projects/ffdshow/>.

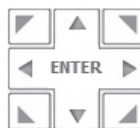
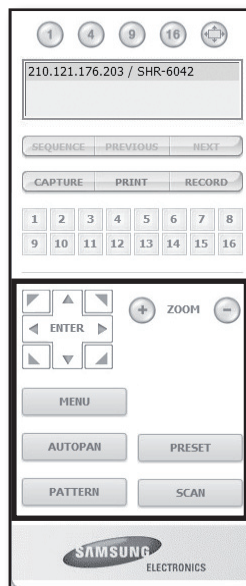
CHANGING THE LIVE SCREEN CHANNEL

Each number indicates the screen positions in Web Viewer.

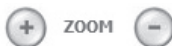
- Blue numbers : Indicates that the current channel is connected to a camera.
- Gray numbers : Indicates that the current channel is not connected to any camera.



USING PTZ CAMERA



Click the direction buttons to control the camera.

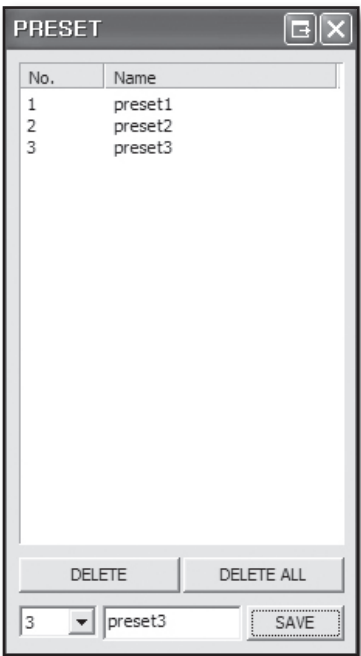


Click the + or - buttons to zoom in or out the image displayed.


MENU: Appears the camera menu screen.



PRESET: Moves the lens direction to a preset direction.




1. If you click **PRESET**, the camera moves to the preset position.
2. You can delete the selected preset or all presets.
3. You can save the new preset number and name.

 You can save the preset up to 20.

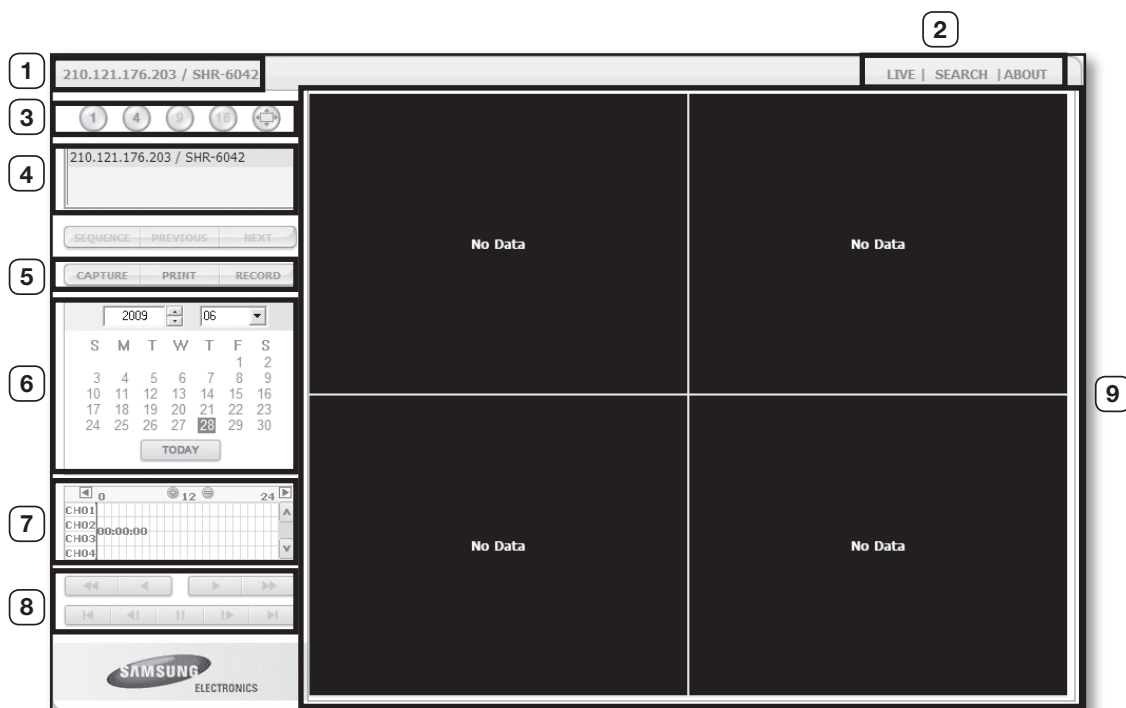
AUTOPAN: Moves the camera lens direction between 2 points set for the camera.

SCAN: Moves the camera lens direction between 2 preset points of the camera.

PATTERN: You can set camera various movement patterns such as zoom, move, etc. so that a camera automatically moves according to the pattern.

-  When a DVR is using the PTZ camera controls, Web Viewer cannot control the PTZ camera.
- The PTZ camera controls can be used by the admin user.
- The Camera Menu Setup function is available only supported cameras.
- All function of PTZ is same as one of DVR.
- Power pan/tilt function operates only with supported cameras. (Example: Samsung SCC-2315)
- Drag down to zoom in or drag up to zoom out by power pan/tilt function.

USING Search Viewer



The Search Viewer screen consists of following:

- ① This displays the IP address and the model name of the connected DVR.
- ② These menus consist of **LIVE**, **SEARCH**, **SETUP**, **ABOUT**.
- ③ These buttons are used for the screen split and full screen mode.
- ④ This displays the IP address and the status of the connected DVR.
- ⑤ These buttons are used for capture, print, and save the image.
- ⑥ This displays a calendar at which you can search the recorded video.
- ⑦ This displays a timeline at which you can search the recorded video by the time.
- ⑧ These buttons are used for controlling playback.
- ⑨ This displays the screen for playback of recorded video.



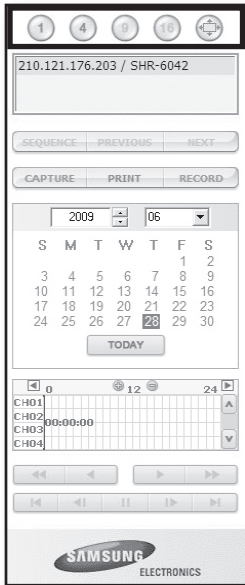
- **SEQUENCE**, **PREVIOUS**, **NEXT** buttons are not available in **SEARCH** menu.
- Non-admin users do not have access to **SEARCH** and **SETUP** menu.

SPLIT-SCREEN

You can change the split mode by clicking each number icon.



SINGLE MODE QUAD MODE



- Click **1** button.

The screen displays the selected camera connected to the DVR in “**SINGLE MODE**”.

- Click **4** button.

The screen displays the selected camera connected to the DVR in “**QUAD MODE**”.

- Only **SINGLE** and **QUAD MODE** are available in **SEARCH** menu.
- When 16-channel DVR is connected, you can select the channels ranging from 1 to 16.

CONNECTED DVR

This displays the IP address and the status of the connecting DVR.



- Connection failure message

No Response : Appears when the DVR does not respond.

Wrong ID : Appears when the input ID is wrong.

Wrong Password : Appears when the input password is wrong.

Wrong Port Number : Appears when the port number is wrong.

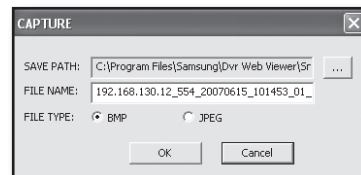
Collision : Appears when Admin mode is already in use or simultaneous access to the same DVR from the PC.


User Full : Appears when the maximum number of users is exceeded.

- The numbers of simultaneous connection are 3 which includes the users for SmartViewer.

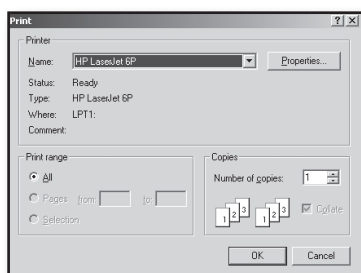
SAVING THE LIVE SCREEN ON THE PC

- **CAPTURE**: Captures the current picture on the screen and saves it as a jpg or bmp image file.

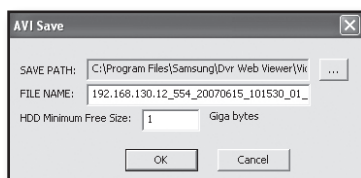



- The default saving path is “C:\Program Files\Samsung\Dvr Web Viewer\Snapshot\Search”. To change the saving path, click “SAVE PATH” button() and then select the path you want. For Windows Vista, the saving path is “C:\users\user ID\AppData\LocalLow\Samsung\DVR Web Viewer\Snapshot\” and it cannot be modified.
- The file is automatically named as following: “IP address_Port number_YYMMDD_camera number_index” Ex) 192.168.130.12_554_20070615_101453_01_00

- **PRINT:** Prints the playback screen that is now being displayed. It also prints IP address, time, camera number, and current event state.

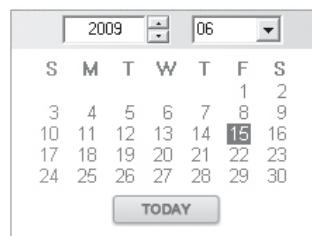
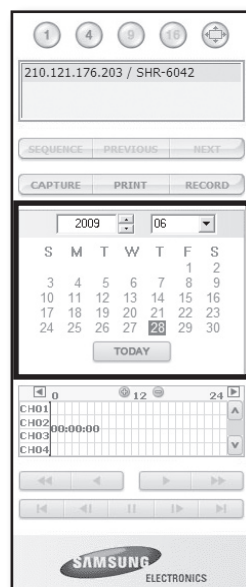


- **RECORD:** If you select a channel and click this button during playback (only play), the video data is saved in a DVR file. (It is saved in the designated folder on your PC.) To stop recording, click this button again.



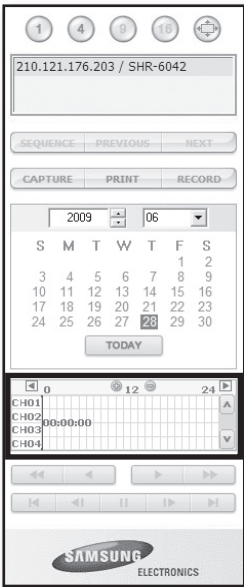
- To record it, it is required at least 1GB of available space.
- The default saving path is "C:\Program Files\Samsung\Dvr Web Viewer\VideoClip\Search". To change the saving path, click "SAVE PATH" button() and then select the path you want. For Windows Vista, the saving path is "C:\users\user ID\AppData\LocalLow\Samsung\DVR Web Viewer\VideoClip\" and it cannot be modified.
- The file is automatically named as following: "IP address_Port number_YYMMDD_camera number_index" Ex) 192.168.130.12_554_20070615_101530_01_00
- For AVI save, you need the DivX codec for playing saved files. You can download the free version of the Divx codec at <http://sourceforge.net/projects/ffdshow/>.

SEARCHING THE RECORDED VIDEO IN THE CALENDAR




If the video data has been recorded on a date, the date is distinguished in green. If you click the date, the recorded video information is displayed in the time line. When you click "**TODAY**", it is changed to today's date.

SEARCHING THE RECORDED VIDEO IN THE TIMELINE




It displays the recorded video data status on the DVR after a date is selected. The normal mode displays the time ranging from 0 to 24 Hours while the extension mode displays the time every 2 hours.

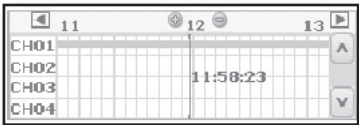
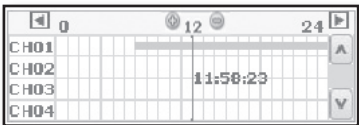
[Normal Mode]

- If you click  button, it changes to the extension mode.
- Each time line represents 1 hour.

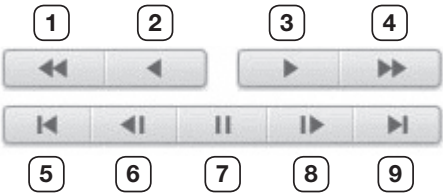
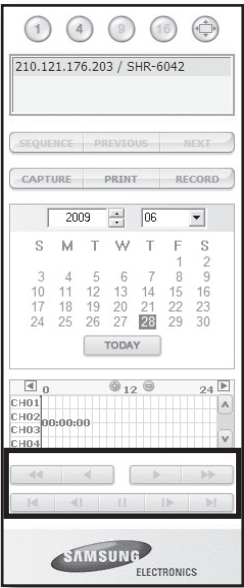
[Extension Mode]

- If you click  button, it changes to the normal mode.
- Each time line represents 5 minutes.

-  • The channels are ranging from CH01 to CH16.



CONTROLLING PLAYBACK



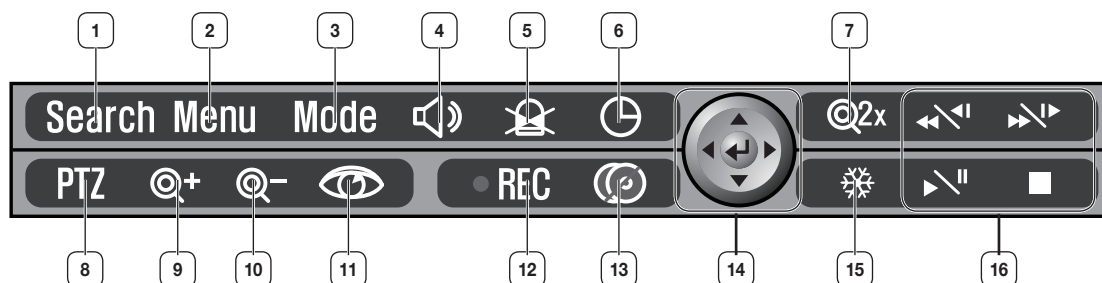
- ① Fast Backward: Reverse-plays faster(2x).
- ② Reverse Play: Performs Reverse Play.
- ③ Play: Performs playback.
- ④ Fast Forward: Plays faster(2x).
- ⑤ Go to First: Moves the beginning time of recorded video in the time line.
- ⑥ Step Backward: Performs one step reverse-play by one frame.
- ⑦ Stop: Stops playing.
- ⑧ Step Forward: Performs one step forward by one frame.
- ⑨ Go to Last: Moves the last time of recorded video in the time line.

POP-UP MENU







Pop-up Menu

You can use this menu by pressing mouse-right button.

Items shown on the pop-up menu are identical with buttons at system's front panel. The benefit of this menu is that user can operate DVR system by simply using mouse.



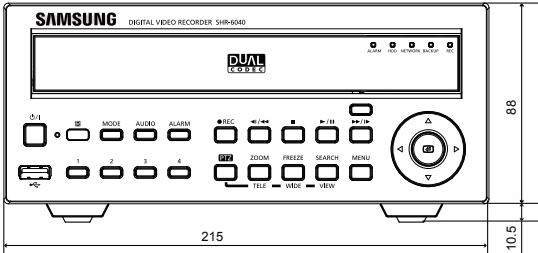
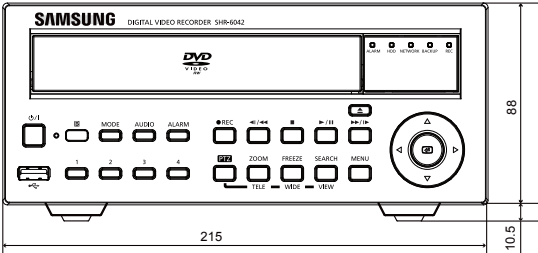
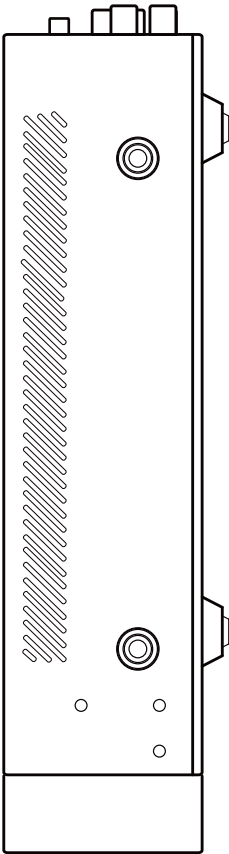
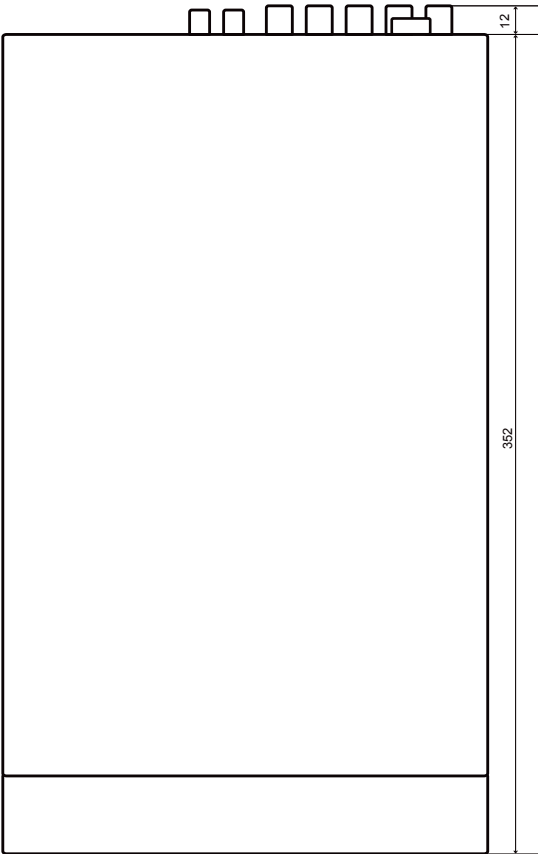
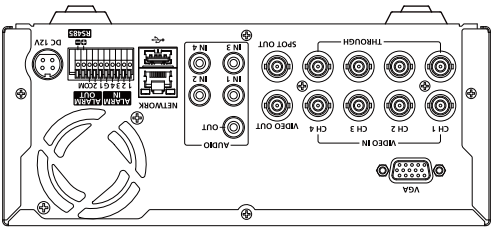
No.	Names		Features	
1	Search	Search button	It starts search mode.	
2	Menu	Menu button	It switches system to setup mode. Users can use this menu to move from lower level menu to upper level menu or when they exit from system setup mode.	
3	Mode	Split Screen Select button	Live Mode	It displays four small screens, PIP screen, and Screen Switch screens.
		Search Mode Select button	Search Mode	It displays four or nine small screens.
4		Audio Setup button	It sets Audio On/Off.	
5		Alarm button	It releases Alarm when Alarm occurs.	
6		Search/Return button	It switches to initial search screen during playing video images.	
7		Zoom button	It magnifies digital image up to 200%.	
8	PTZ	PTZ button	Perform the TELE, WIDE, PRESET or VIEW function when selecting the PTZ button.	
9		ZOOM TLLE	It provides Zoom-In feature at PTZ mode.	
10		ZOOM WIDE	It provides Zoom-Out feature at PTZ mode.	
11		PTZ Setup menu	It displays PTZ Setup screen at PTZ mode.	
12	REC	REC button	It records video images from all the camera channels regardless of recording schedule.	
13		Backup Cancel button	It cancels backup process.	

No.	Names		Features
14		Direction button	This button controls PTZ directions at PTZ mode. If user press Enter button, the pop-up menu will disappear.
15		FREEZE button	It executes Freeze feature at Live screen.
16		Fast/Step Reverse	Fast Reverse: It performs a search in reverse direction quickly while playing the video. Step Reverse: It performs frame-by-frame search in reverse direction while video is paused.
		Fast/Step Forward	Fast Forward: It performs a search in forward direction quickly while playing the video. Step Forward: It performs frame-by-frame search in forward direction while video is paused.
		Play/Pause	It toggles between Play and Pause operation while playing a video.
		Stop	It terminates Search operation while playing the video.

SPECIFICATIONS

Category		SHR-6040	SHR-6042
OS		Embedded Linux (Version : 2.6.0)	
Compression Method	Video	MPEG-4 ASP	
	Audio	G.723	
Video	Input	Composite 4 channel(1Vp-p, 750hm)	
	Output	CVBS 1 Port, VGA(1280x1024) 1 Port, SPOT 1 Port, Loop Through Out 4 channel	
Audio		4 Channel Recording/1channel Output	
Display	Standard	NTSC D1 90fps / PAL D1 75fps	
	Resolution	NTSC : 704x480, 704x240, 352x240/PAL : 704x576, 704x288, 352x288	
	Live	Single, 4 Split, PIP, Sequence, Freeze, 2x Zoom	
	Playback	Single, 4 Split, 9 Split(Live/Playback)	
Recording	Standard	NTSC D1 90fps / PAL D1 75fps	
	Resolution	NTSC : 704x480, 704x240, 352x240 PAL : 704x576, 704x288, 352x288	
	Type	REC Mode, Event, Schedule(Countinuous, Motion, Alarm In)	
Alarm In/Alarm Out		4 Ports/2 Ports	
PTZ		RS-485	
HDD		HDD x 2	HDD x 1
DVD-RW		None	Supported
USB (Version : 2. 0)		2 Ports	2 Ports
USB Mouse		Supported	
Remote S/W		Supported	
Network		Static IP, DHCP, ADSL(PPPoE)	
Backup	Media	USB	DVD-RW, USB
	Type	SDB, SFX, AVI	
Dimension		215(W) x 352(D) x 88(H)	
Weight		4.0 Kg	
Power		AC 100-240V, 50/60Hz, 59W (Model : ADP-5412VE)	
OPERATING TEMP/HUDI		0°C ~ 40°C / 10% ~ 60% RH	
STROAGE TEMP / HUDI		0°C ~ 40°C / 10% ~ 60% RH	

OUTLINE DRAWINGS



TROUBLESHOOTINGS(FAQ)

PROBLEM	SOLUTION
Can't turn ON the power of system	<ul style="list-style-type: none"> • Check if the computer's power cables are all connected properly. • Check the input voltage. • If you can't find any wrong connection, but you still can't turn on the power, you have to consult service center or technicians.
Power is turned ON, but all you can see is a blue screen.	<ul style="list-style-type: none"> • Check if the monitor's power cables are all connected properly. • Check if the monitor's power button is pressed ON. • Check if the output data cable of SHR-6040/6042 system is properly connected to the monitor. • Disconnect the power cable and connect it. • If you choose VGA mode for video output, you have to wait about 1 minute before you can see surveillance screen on your monitor.
Camera numbers are displayed on the screen, but can't see any visual transferred from camera.	<ul style="list-style-type: none"> • Check if the output data cable from cameras are properly connected to SHR-6040/6042 system. • Check if the cameras' power cables are all connected properly. • Check the cable connections between camera and SHR-6040/6042. • If video signals are sent to multiple systems, sometimes video splitter generates weak video signal, so monitor displays nothing. In this case, connect the camera directly to the center system to avoid this problem. • Turn OFF and ON the SHR-6040/6042 system.
Video images are displayed, but I can't record these.	<ul style="list-style-type: none"> • Check if you have set Recording Method at Record Setting. If it is set to 'NONE', you have to set it correctly. • Turn OFF/ON the SHR-6040/6042 system.
Can't find recorded images.	<ul style="list-style-type: none"> • Check graphs to see if video images were recorded at the time zone you want to find video images. • If no video images were recorded at the time zone, check the setup screen to find if recording method is properly set.
Can't hear audio outputs.	<ul style="list-style-type: none"> • Check if the cameras' Audio Save Option is set properly. • Check if Audio Play Option is selected already at Search Screen. • Check if microphone and speaker are properly connected the rear side of SHR-6040/6042 system. • Check if the connected microphone input is working properly. • Check if the connected speaker output is working properly.

PROBLEM	SOLUTION
<p>Some cameras show video images in weird color or in abnormal shape.</p>	<ul style="list-style-type: none"> • Check the cameras connected to the system. Switch the camera that displays defected images with the other camera that displays images correctly, and then you can check which camera is not working properly or whether SHR-6040/6042 system is defected. You can switch cameras by simply switching camera numbers on the screen. • Check camera types. Countries around the world use different video broadcasting standards such as PAL, NTSC, or SECAM. However each standard is incompatible with the other in terms of video image transmission method and consequently video image processing methods. In this case, video images will be displayed, but not in recognizable shape. Check the video image types sent from connected cameras and image processing method set in [System Menu] are identical.
<p>Displayed video signals has a lot of noises.</p>	<ul style="list-style-type: none"> • Check the video outputs from camera. Switch the camera that displays defected images with the other camera that displays images correctly, and then you can check which camera is not working properly or whether SHR-6040/6042 system is defected. You can switch cameras by simply switching camera numbers on the screen. • Check the cable connections between camera and SHR-6040/6042. Check if these cables are shorted, mixed or disconnected. • Check the surroundings of cable connections between camera and SHR-6040/6042. Check if there is any high-voltage power line around the cable connections. If there is any high-voltage power line nearby the cable connections, it might degrade video image quality or causes noises. • Check the cable connections between camera and SHR-6040/6042. Check if the cables are right for transferring video signals. If you have used power cables for video image transmission, it can cause noises at displayed video images.
<p>Sometimes system is rebooted without any cause.</p>	<ul style="list-style-type: none"> • If SHR-6040/6042 is not working properly, or there is any malfunction, the embedded self diagnosis feature might cause the system to reboot.
<p>Connected sensors are not working properly.</p>	<ul style="list-style-type: none"> • Check the sensor types set in Camera Setup menu are identical with the sensors actually connected to the system. • Check if the system's sensors are enabled at [Recording Setup]-[Recording Schedule] menu. • Check if the connected sensors are correctly connected to power source. • Check if the connected sensors' signal lines are correctly connected.
<p>Connected control devices are not working properly.</p>	<ul style="list-style-type: none"> • Check if the connected control devices are enabled at Camera Setup menu. • Check if the connected control devices are correctly connected to power source. • Check if the signal lines of the connected control devices are correctly connected.

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To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.